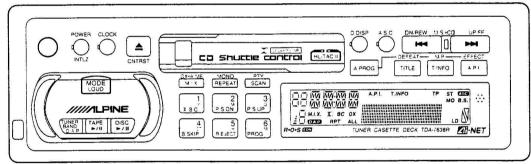


# FM/MW/LW/RDS Tuner Cassette Deck

# CD Shuttle Controller

 For the cassette deck mechanism parts (GR75H13A) of this model, refer to the Service Manual • GR/GR-Y Series (68P20504W07).



MI-NET



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# **Specifications**

FAA DADIO
FM RADIO           Intermediate Frequency         10.7 ± 0.1 MHz
Intermediate Frequency
Frequency Range
USABLE SERVICE (IVIDIO de 30.11VIDZ)
- 3dB Limiting Sensitivity (at 98.1MHz)
5 / N RATIO (Stereo bugbu 36, NMHz)
Image Rejection (at 106.1MHz)
IF Rejection (at 90.1MHz)
Distortion (Input 60dBµ at 98.1MHz)
Frequency Response (Ref. 400Hz, at 98.1MHz)
10kHz:-13±3dB
Stereo Separation (at 98.1MHz)
PS Sensitivity (98.1MHz)
TP Sensitivity (98.1MHz)
MW RADIO
Intermediate Frequency
Frequency Range
Usable Sensitivity (20dB S / N, at 999kHz)
S / N Ratio (at 999kHz)
Image Rejection (at 1,404kHz)
IF Rejection (at 603kHz)
Distortion (at 999kHz)
Frequency Response (Ref. 400Hz, at 999kHz)
4kHz:-12+6, -12dB
LW RADIO
Intermediate Frequency
Frequency Range
Usable Sensitivity (20dB S / N, at 216kHz)
S / N Ratio (at 216kHz)
Image Rejection (at 270kHz)
IF Rejection (at 162kHz)
Distantian (at 162KHz)
DISTORTION (at 210kHz)
Frequency Response (Ref. 400Hz, at 216kHz)
4A11212+0, -1201
TAPE PLAYER
Wow & Flutter (JIS, WRMS / MTT - 111N)
Tape Speed (MTT - 111N)
S / N Ratio (MTT - 212N)
Distortion (MTT - 118N)
Frequency Range (Ref. 1kHz, MTT-256)
12.5kHz : - 4dl
36Datanon (M. 114.1M)
CIOSSIAIR (IVI) 1-12 IIV
FF & REW Time (C-60)
GENERAL
Power Supply
Output Voltage / Impedance
Semiconductors
Dimension (W×H×D)
Nose: 171×48×22.5 mn
Weight
Note: Due to Continuing product improvement, specifications and designs are subject to change without notice.

# In Case of Difficulty

If you encounter a problem, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected or consult your authorized Alpine dealer.

#### Initial Turn-on After Installation

Symptom	Cause	Solution		
No function or display.	Car's ignition is off.	If connected following instructions, the unit will not operate with the car's ignition off.		
	Improper power lead connections.	Check power lead connections.		
	Blown fuse.	Check the fuses on the battery leads; replace with the proper value if necessary.		

#### Radio Mode

Unable to receive stations.	No antenna or open connection in cable.	Make sure the antenna is properly connected; replace the antenna or cable if necessary.		
Unable to tune stations in the	You are in a weak signal area.	Make sure the tuner is in the DX mode.		
seek mode.	If the area you are in is a primary signal area, the antenna may not be grounded and connected properly.	Check your antenna connections; make sure the antenna is properly grounded at its mounting location.		
	The antenna may not be the proper length.	Make sure the antenna is fully extended; if broken, replace the antenna with a new one.		
Broadcast is	The antenna is not the proper length.	Extend the antenna fully; replace it if it is broken.		
noisy.	The antenna is poorly grounded.	Make sure the antenna is grounded property at its mounting location.		

#### Tape Mode

Output sounds	The tape head needs cleaning.	Clean the tape nead.
dull.	Incorrect Dolby NR in use.	Check Dalby NR switch setting.

# In Case of Difficulty

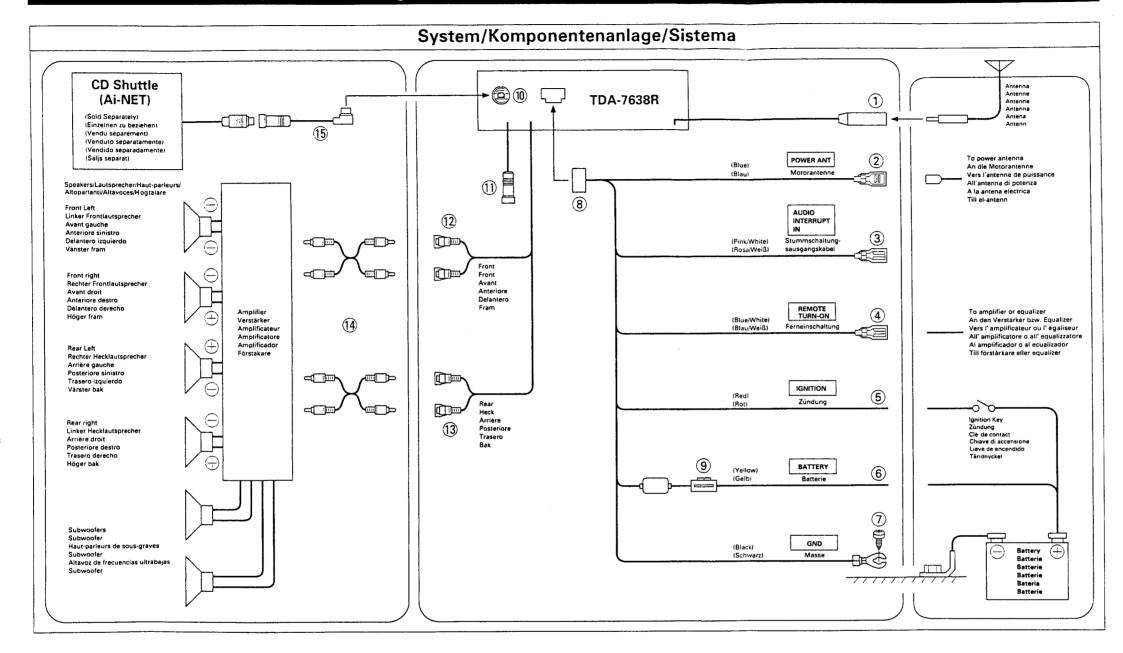
## **CD Shuttle Mode**

CD Shuttle not functioning.	Out of operating temperature range +50°C (+120°F) for CD.	Allow the car's interior (or trunk) temperature to cool.		
CD playback sound is wavering.	Moisture condensation in the CD Module.	Allow enough time for the condensation to evaporate (about 1 hour).		
Unable to fast forward or backward.	The CD has been damaged.	Eject the CD and discard it; using a damaged CD in your unit can cause damage to the mechanism.		
Sound skips due to vibration.	Improper mounting of the CD Shuttle. Disc is very dirty. Disc has scratches.	Securely re-mount the CD Shuttle. Clean the disc. Change the disc.		
Sound skips without vibration.	Dirtyor scratched disc.	Clean the disc; damaged discs should be replaced.		
Single (8cm) disc does not play.	Single CD adaptor is not used.	Attach a single CD adaptor (recommended by Alpine) to the single disc and insert into the CD magazine.		

#### Indication for CD Shuttle

Indication	Cause	Solution
н	Protective circuit is activated due to high temperature.	The indicator will disappear when the temperature returns to within operation range.
ERROR 01	Malfunction in the CD Shuttle.	Consult your Apline dealer.  Press the magazine eject button and pull out the magazine. Check the indication, Insert the magazine again. If the magazine cannot be pulled out, consult your Alpine dealer.
	Magazine ejection not possible.	Press the magazine eject button. If the magazine does not eject, consult your Alpine dealer.
ERROR 02	A disc is left inside the CD Shuttle.	Press the EJECT button to activate the eject function. When the CD Shuttle firshes the eject function, insert an empty CDma.gazine into the CD Shuttle to receive the disc left inside the CD Shuttle.
NO MAGZN	No magazine is loaded into the CD Shuttle.	Insert a magazine.
NO DISC	No indicated disc.	Choose another disc.

# Connections/Anschlüsse/Connexions/Collegamenti/Conexiones/Anslutningar



- 1 Antenna Receptacle
- Power Antenna Lead (Blue)
  When loaded with a power antenna, connect to the +B terminal of the power antenna.
- 3 Audio Interrupt In Lead (Pink White)
- Remote Turn-On Lead (Blue/White)
   Connect this lead to the remote turn-on lead of your amplifier or signal processor.
- (5) Switched Power Lead (Ignition) (Red)
  Connect this lead to an open terminal on the vehicle's fuse box or another unused power source which provides (+) 12V only when the ignition is turned on or in the accessory position
- 6 Battery Lead (Yellow) Connect this lead to the positive (+) post of the vehicle's battery.
- 7 Ground Lead (Black)
  Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fastened using the sheet metal screw provided.
- 8 Power Supply Connector
- 9 Fuse Holder (3A)
- Ai-NET Input Connector Connect this to the Ai-NET Output connector on other Ai-NET model.
- 1 Ai-NET Output Connector
- 12 Front Output RCA Connectors RED is right and WHITE is left.
- (13) Rear Output RCA Connectors RED is right and WHITE is left.
- (14 RCA Extension Cable (Sold Separately)
- 15 Ai-NET Cable





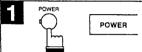




When operating the unit for the first time after installation or after the vehicle's battery has been disconnected and reconnected, set the volume level to its minimum, then press the INTLZ button for at least 3 seconds to reset the unit.

# **Turning Power** On and Off





Press to turn on the unit. The display shows "POWER" for 2 seconds. The volume level gradually increases to the same level as you were listening to before the power was turned off

The unit can be turned on by pressing any button except the eject ≜ and CLOCK buttons, or by inserting a

#### Handling the Detachable Front Panel

TREBLE

BASS

BALANCE

FADER

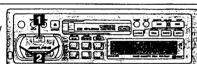
VOLUME.

Do not expose to rain or water.



Press again to turn off the unit.

Adjusting Volume/Treble/Bass/ Balance/Fader (Front and Rear)





Notes:

If the level control is not rotated in 5 seconds after selecting the TREBLE, BASS, BALANCE and FADER modes, the unit automatically sets in the VOLUME mode. Volume level can be adjusted by rotating

the level control without first pressing the mode button.



TREBLE Rotate the level control clockwise or counterclockwise to increase or decrease the level until the desired sound is obtained

lote: When this control is rotated to its extreme end, the level changes quickly.
The settings of the Bass and Treble will be individually memorized for each source (FM, MW, LW, tape and CD) until the setting is changed.

# **Basic Operation**

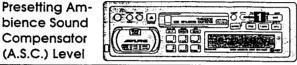
Press for at least 2 seconds to activate or deactivate the

Note: When an optional Aloine Audio Processor (Equalizer or Divider) is connected to the TDA-7638R, the Loudness mode is unfunctional.

# Turning Loudness On/Off Loudness introduces a special low- and high-frequency emphasis at low listening levels to compensate for the ear's decreased sensitivity to bass and treble sound. LOUD LD

Presetting Ambience Sound Compensator

oudness mode.



LOUD OFF

A.S.C. 1-

A.S.C. 2

A.S.C. 3

ASC OFF

The buit-in Fuzzy Logic circuit detects the low/mid frequency noise created by the vehicle engine and road surface, then adjusts the volume and bass levels to mask the noise Note: When an optional Alpine Audio Processor (Equalizer or Divider) is connected to the TDA-7638R, the A.S.C. mode is unfunctional.



Press for at least 2 seconds to activate the A.S.C. level selecting mode. The display blinks for 2 seconds. Press repeatedly to choose the desired A.S.C. level. The unit autoamtically stores the selected level in memory and the A.S.C. level





A.S.C.



Press momentarily to activate the A.S.C. mode. The A.S.C. indicator illuminates for 2 seconds. To deactivat the A.S.C. mode, press again The ASC OFF indicator appears for 2

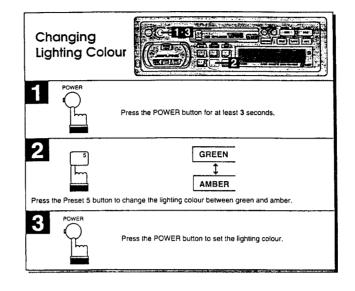
# Adjusting Dot-Contrast



CONTRAST Press for at least 3 seconds to activate the contrast adjusting mode. The display shows "CONTRAST" for 5 seconds.

CONTRAST Press the I or button repeatedly to select the desired contrast level of the display while "CONTRAST" is displayed. The selected contrast level is automatical set after 5 seconds.

# **Basic Operation**



# Radio Operation

BAND DA.P.

Press repeatedly until

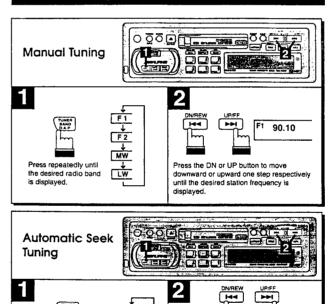
the desired radio band is displayed.

F1

F2

₩W

LW



Press and hold down the DN button or UP button for at least 0.5 seconds to automatically seek a station downward or upward respectively. When the unit finds a station, it automatically stops at that station To automatically seek and tune to the next station, press the button again for at least

# **Radio Operation**

#### Mono/Stereo Switching



"ST" indicator appears when a stereo station is tuned in.



F1 101.50 HO

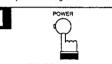
F1 101.50 ST

Press to switch from the stereo mode to the monaural mode to reduce the noise level of noisy stereo broadcast due to weak signal. In the monaural mode, the MO indicator appears. Press again to return to the stereo mode.

# Adjusting FM Signal Level



If the difference in volume levels between the FM station and the tape player is great, you can adjust the FM signal level to make the difference smaller.



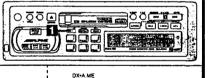
FM-LV HI FM-LV Lo Press to select the desired signal level.

Press the POWER button for at least 3 3

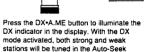


Press to preset the FM signal level in memory and deactivate the adjusting mode

Radio Station Auto-Seek Sensitivity



DX-A.ME M.I.X.



Press the DX•A.ME button again to return to the local mode. The DX indicator will turn off and only strong stations will be tuned.

## **Manual Storing** of Station Presets



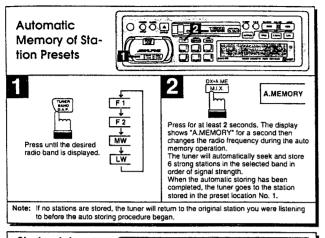
4 5 6 REJECT PROG

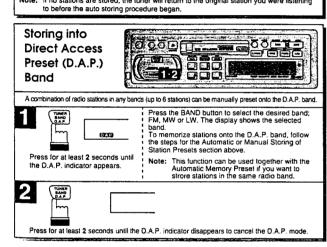
- 1. Tune in the desired radio station you wish to store in the preset memory.
  2. Press any one of the preset buttons (1 through 6) for at least 2
- Press any one on the present utitions (it introdge of for at least 2 seconds until the frequency display blinks.
   Press the preset button into which you wish to store the station while the display is blinking (within 5 seconds).
   The display changes from blinking to steady lighting indicating that the station has been memorized. The preset number is also displayed.
- displayed.

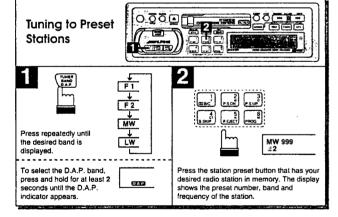
  4. Repeat the procedure to store 5 other stations onto the same band. Use this procedure for other bands.

A total of 30 stations can be stored in the preset memory (6 stations for each band; FM1, FR2, MW, LW and D.A.P.). The RDS stations can be preset in the FM1, FM2 and D.A.P. bands city. Note: If a preset memory has already been set in the same preset location, it will be cleaned and the new station will be memorized.

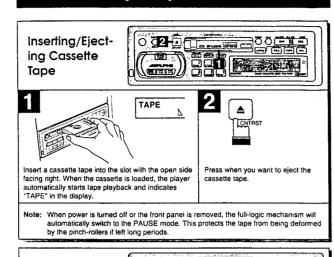


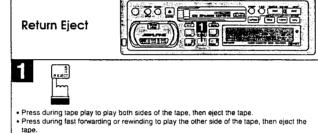






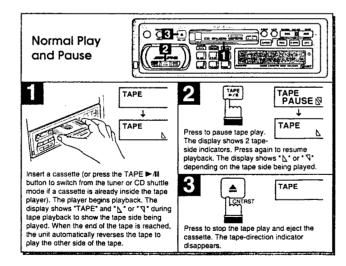
# **Cassette Player Operation**



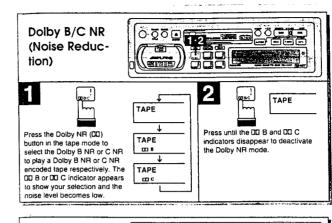


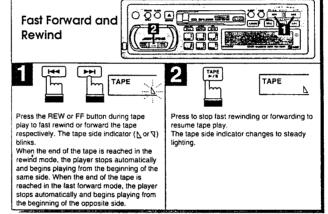
Note: Auto Meta

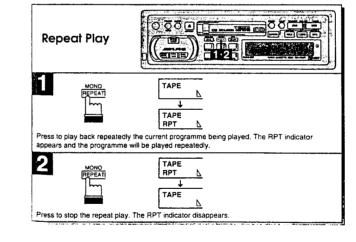
When a metal cassette tape is inserted, the player automatically adjusts to the equalization for metal or any other high bias tape for optimum sound.



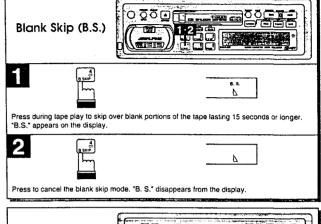
# **Cassette Player Operation**

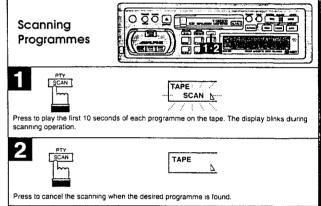


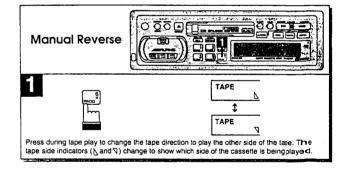




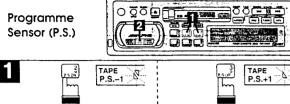
# **Cassette Player Operation**







# **Cassette Player Operation**



Press the P.S. DN button once to return to the beginning of the current selection being played. If you wish to return to a selection further back, press repeatedly until the number of selections you would like to skip is shown in the display. The display will show P.S. -1 with the first press and will increase by one with each successive press up to P.S. -9. The tape indicator will blink showing the direction of your search. up to P.S. -9. The tape indicator will blink showing the direction of your search.

Press the P.S. UP button once to advance to the beginning of the next selection. If you wish to advance to a selection further ahead, press repeatedly until the number of selections you would like to skin is shown in the display. The display will show P.S. +1 with the first press and will increase with each successive press

The tape direction indicator blinks during searching operation.

2 TAPE F/H

To stop the programme searching, press the TAPE

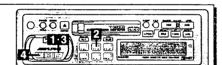
Notes: • The programme sensor feature is functional in the tape play mode only.

• You can advance to the 9th (max.) programm

or return to the 8th (max.) programme.

# **CD Shuttle Operation**

# Controlling CD Shuttle (Optional)



If an optional Alpine 6-disc CD Shuttle is connected to the Ai-NET connector of the TDA-7638f through an Ai-NET adaptor, you can control the CD Shuttle using the TDA-7638R. You can connect and operate multiple Alpine CD Shuttles when these are connected through the Multi-Changer Switching device(s) (KCA-400C) to the TDA-7638R. See the Multi-Changer Selection section on next page for selecting the CD Shuttles.

Note: The controls on the TDA-7638R for the CD operation are operative only when the CD Shuttle is interconnected with the TDA-7638R.



The display example shows when playing the 01 12'36 3 DISC-3



Press to activate the connected CD Shuttle. The display shows the disc number and track number then the CD Shuttle starts to play from the first track.

Press the buttons to select the desired disc loaded in the CD Shuttle. The CD Shuttle begins playing from the first track on the

3 DISC

01 12'36 3 PAUSE o1 12'36 3 DISC-3

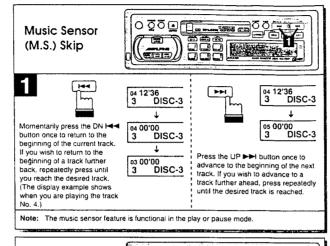
Press to pause CD play. The display shows "PAUSE."

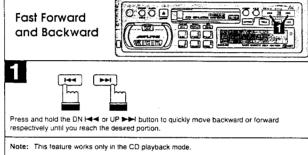
To resume CD play, press again. The PAUSE indicator disappears.

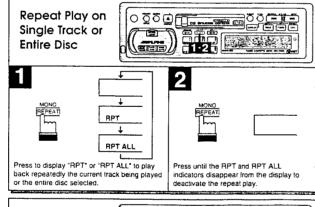
TIMER TAPE

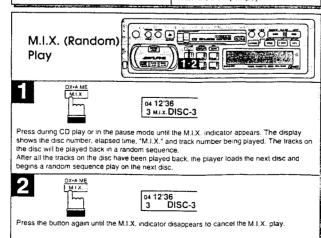
Press the TUNER or TAPE button to deactivate the CD shuttle mode and activate the tuner

# **CD Shuttle Operation**

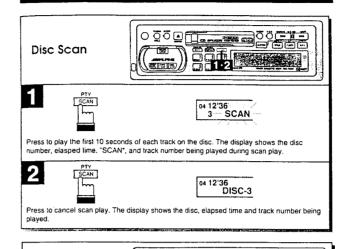


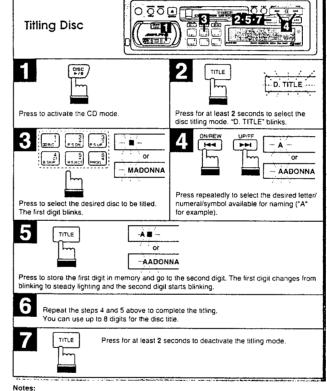






# **CD Shuttle Operation**

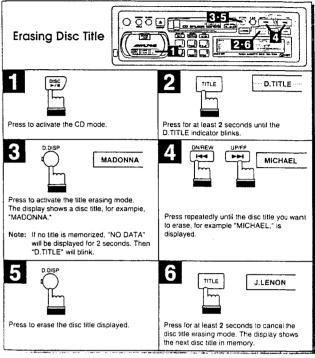


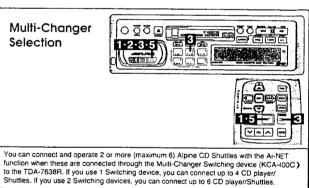


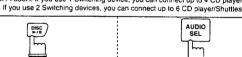
- When the memory capacity for the disc titles is used up, the display shows "FULL DATA" to indicate that no more title can be memorized. Refer to the Owner's Manual of the CD Shuttle interconnected for information about how many discs you can title.

  The CD titles stored in memory will be erased when the Ai-NET cable to the CD Shuttle is

# **CD Shuttle Operation**







Press the DISC button on the TDA-7638R to activate the CD mode

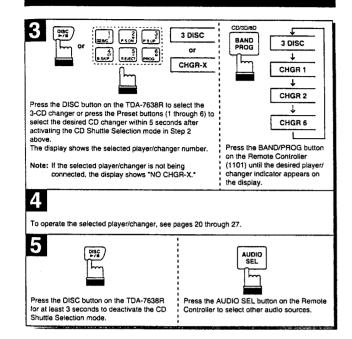
Press the AUDIO SEL button on the Remote Controller (1101) to activate the CD more. Proceed to Step 3 below to select the desired

中人)

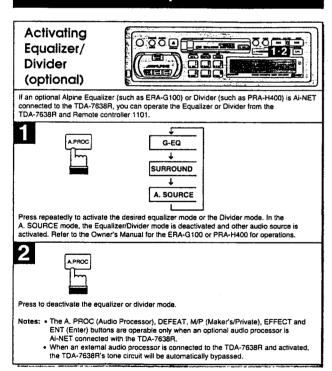


Press the DISC button on the TDA-7638R for at least 2 seconds to activate the CD Shuttle Selection mode.

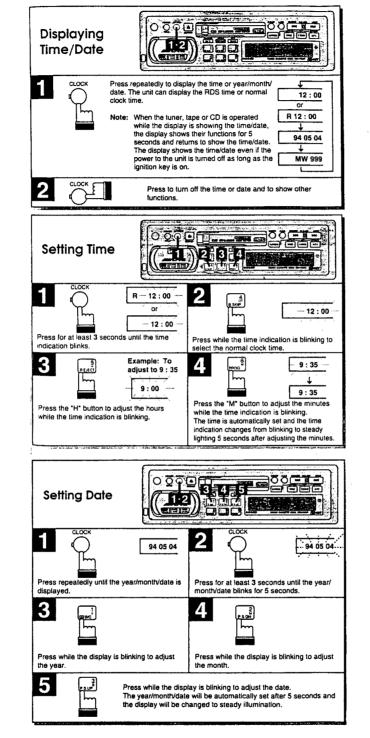




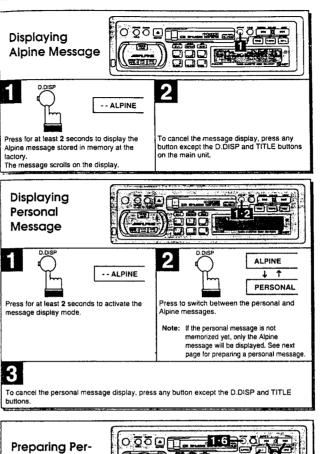
# **Audio Processor Operation**

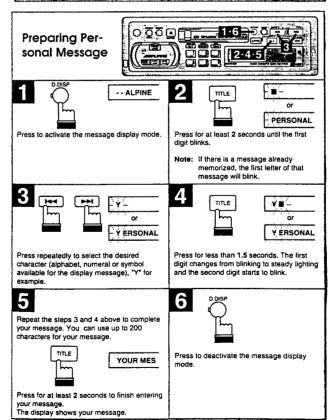


# **Clock Operation**

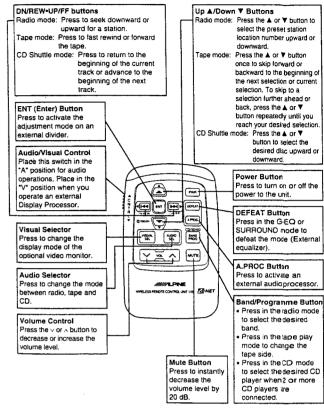


# **Message Display**



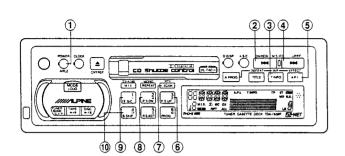


# Remote Control

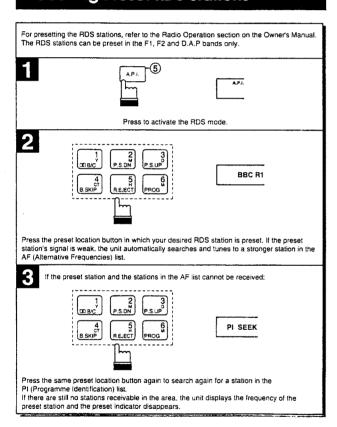


Note: Point the remote control toward the remote sensor on the upper left side of the main unit to operate the unit.

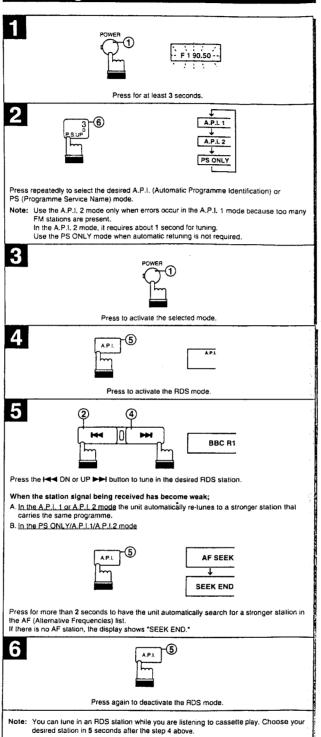
# **RDS**



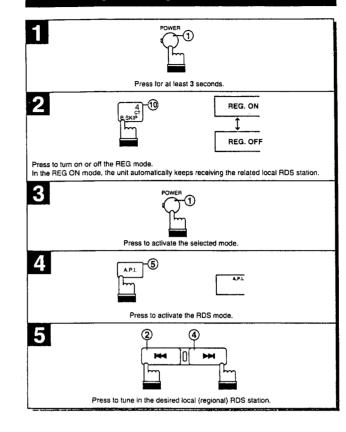
# **Recalling Preset RDS Stations**



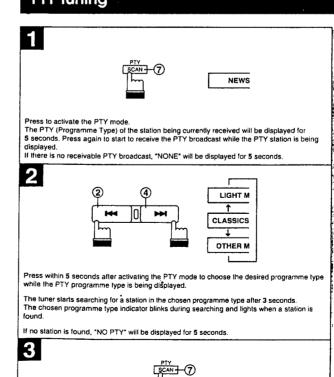
# Setting RDS Reception Mode and Receiving



# Receiving RDS Regional (Local) Stations

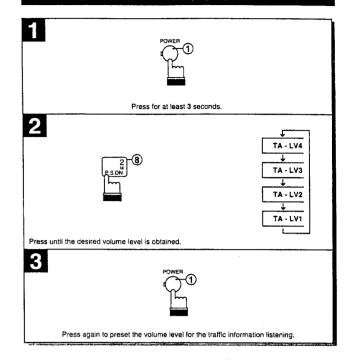


# PTY Tuning

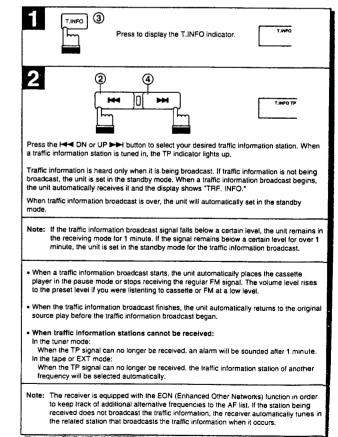


Press for at least 2 seconds to cancel the PTY mode.

# **Presetting Volume Level for Traffic Information**



# **Receiving Traffic Information**



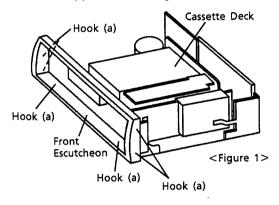
# **Disassembly Instructions**

## 1. Removal of Nose Unit

(1) Refer to the Owner's Manual (Part No. 68P50390W83).

#### 2. Removal of Front Escutcheon

(1) After removal of Top Cover, remove the Hooks (a) as shown in Figure 1.

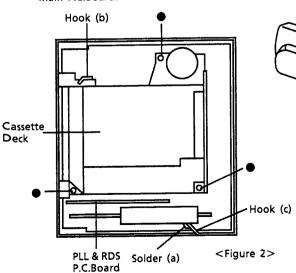


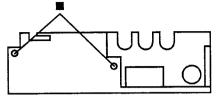


- (1) Remove the Hook (b) as shwon in Figure 2.
- (2) Remove three screws marked "●" as shown in Figure 2.
- (3) Disconnect one Connector from the Cassette Deck.

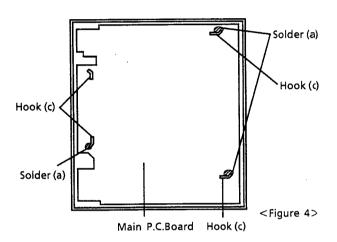
# 4. Removal of Main P.C.Board

- (1) Remove the Solder (a) and Hooks (c) as shown in Figure 2, 4.
- (2) Remove two screws marked "■" as shown in Figure 3.
- (3) Disconnect two connectors from the Main P.C.Board.



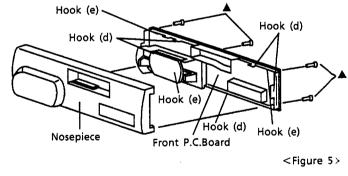


<Figure 3>



# 5. Removal of Front P.C.Board

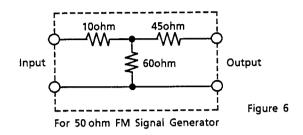
- (1) After removal of Nose Unit, remove four screws marked "▲" and the Hooks (d) as shown in Figure 4.
- (2) Remove the Hooks (e) as shown in Figure 5.



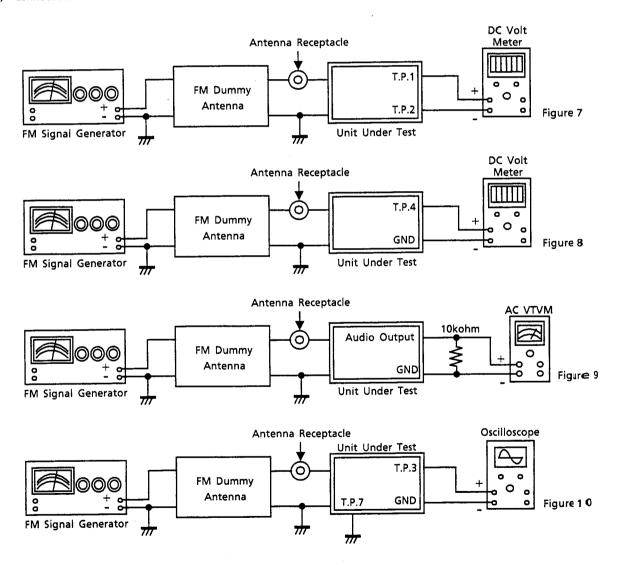
# **Adjustment Procedures**

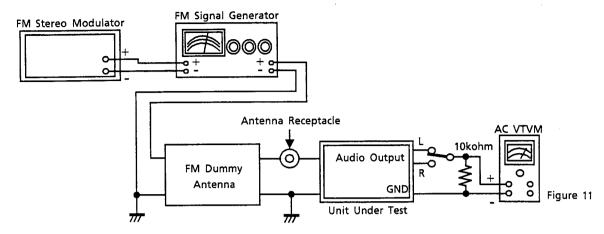
# 1. FM SECTION

# (1) Dummy Antenna Circuit



#### (2) Connections





# (3) Control Settings

Power Switch	ON
Fader Control	Center Position
Balance Control	Center Position
Treble / Bass Control	Center Position
Band Switch	FM
Others	OFF

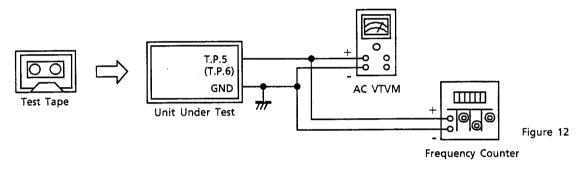
# (4) Adjustment Procedures

Step	Descriptio	n	Connection	Signal Generator	Dial Control	Test Point	Adjustment	
1	IF Figure 7 9		98.1MHz, 72dB (Mod. OFF)	98.1MHz	T.P.1 T.P.2	Adjust L2101 for 0±15mV.		
2	Signal Mete Adjustment	r	Figure 8	98.1MHz, 46dB (Mod. 400Hz)	98.1MHz	T.P.4	Adjust VR2101 to 3±0.1V.	
, <u>.</u>	(1) Noise Level		Figure 9	98.1MHz, 72dB (Mod. 400Hz)	98.1MHz	Audio Output	Adjust VR401 (VOLUME) to obtain 500mV output. This value is 0dB.	
3	Adjustment	Adjustment (2) Figure 9		Figure 9	98.1MHz, -19dB (Mod. 400Hz)	98.1MHz	Audio Output	Adjust VR2106 to -30±5dB output at SG level minimum.
4	Seek Stop Adjustment		Figure 10	98.1MHz, 26dB (Mod. OFF)	98.1MHz	T.P.3	Adjust VR2105 for the waveform changing to maximum output.  Figure: Waveform of T.P.3 output.  MAX.  Stop the adjust VR2105 at this time.	
5	Stereo Separation Adjustment (Lch)  Stereo 98.1MHz, 72dB (Stereo 1kHz, Lch, only)		98.1MHz	Audio Output	Adjust VR2104 for Rch output to be minimum, and confirm Lch and Rch output level difference is more than 20dB.			

Step	Description	Connection	Signal Generator	Dial Control	Test Point	Adjustment
6	Stereo Blend Adjustment (Lch)	Figure 11	98.1MHz, 46dB (Stereo 1kHz, Lch, only)	98.1MHz	Audio Output	Adjust VR2102 for Lch and Rch output level difference to be 8dB.
7	Stereo Separation Adjustment (Rch)	Figure 11	98.1MHz, 72dB (Stereo 1kHz, Rch, only)	98.1MHz	Audio Output	Proceed same adjustment under step 5 by alternating Lch and Rch.
8	Stereo Blend Adjustment (Rch)	Figure 11	98.1MHz, 46dB (Stereo 1kHz, Rch, only)	98.1MHz	Audio Output	Proceed same adjustment under stop 6.

# 2. TAPE PLAYER SECTION

# (1) Connector



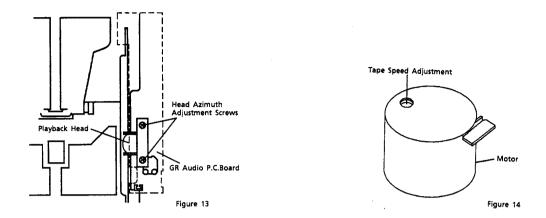
# (2) Control Settings

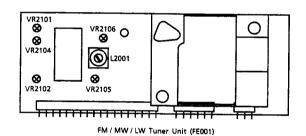
Power Switch	ON
Fader Control	Center Position
Balance Control	Center Position
Treble / Bass Control	Center Position
Others	OFF

# (3) Adjustment Procedures

Step	Description	Test Tape	Connection	Test Point	Adjustment Point	Adjustment
1	Head Azimuth Adjustment	MTT-114NB (14kHz)	Figure 12	T.P.5 (Lch) Adjustment Screws		Adjust for Max. and same level output at Normal and Reverse positions.
2	Dolby Level Adjustment	MTT-150 (400Hz)	Figure 12	T.P.5 (Lch) T.P.6 (Rch)	VR201 (Lch) VR202 (Rch)	Adjust for 388mV at T.P.5 (Lch) and T.P.6 (Rch).
3	Tape speed Adjustment	MTT-111N (3kHz)	Figure 12	T.P.5 (Lch) or T.P.6 (Rch)	Tape Speed Adjustment (Figure 14)	Adjust for 2,970 to 3,090Hz at T.P.5 (T.P.6).

# **Adjustment Locations**





GR Cassette Deck (GR75H13A)

VR202

FM / MW / LW Tuner Unit (FE001)

VR201

T.P.4

Main P.C.Board

T.P.2

PLL & RDS P.C.Board

T.P.2

Nosepiece

(Bottom Side)

Note: For the detailed Test Points (T.P.1~T.P.7), refer to the Parts Layout on P.C.Board and Wiring Diagram.

# **Description of IC Terminal**

# 45552W28 (IC401)

	2VV28 (IC401)	Υ				
No.	Symbol	1/0	Terminal Description			
1	7582 TNH	0	INH signal output terminal to LC7582W.			
2	7582 CE	0	Stand by control terminal to LC7582W.			
3	7582 CLK	0	Communication sync signal output terminal to LC7582W.			
4	7582 DATA	0	Serial data output terminal to LC7582W.			
5	7229 CS	0	CS output terminal to Display microcomputer.			
6	7229 CLK	0	Communication sync signal output terminal to Display microcomputer.			
7	7229 RST	0	System clock output terminal to Display microcomputer.			
8	ORG / GRN	0	Output terminal for lamp switching.			
9	V <sub>SS</sub>	_	GND potential terminal.			
10						
11			· ·			
12						
13						
14						
15	V <sub>ss</sub>	-	GND short.			
16						
17						
18						
19						
20						
21						
22	EEPCLK	0	Clock data output terminal to EEPROM.			
23	EEPDI	1	Serial data input terminal from EEPROM.			
24	V <sub>SS</sub>		GND potential terminal.			
25	EEPDO	0	Serial data output terminal to EEPROM.			
26	P.ON	0	Power control signal output terminal to LCD Driver.			
27	KS0					
28	KS1	] 。	Kou soon sinnel output tourise!			
29	KS2	]	Key scan signal output terminal.			
30	KS3	Ī				
31	V <sub>SS</sub>	_	GND short.			
32						
33	V <sub>ss</sub>	-	GND short.			
34						
35	RESET	1	System reset input terminal.			
36	V <sub>SS</sub>		GND short.			
37	REMOCON	1	Remocon data input terminal.			
38	CONT - START	1	Command sync signal input terminal from Main microcomputer.			
39	AREA 0	1	Initial setting input terminal.			
40	V <sub>CC</sub>		Positive power supply.			
41	X2	- ↓	Caramic element connection terminal for system clock OSC			
42	X1		Ceramic element connection terminal for system clock OSC.			
43	V <sub>SS</sub>		GND short.			
44	NC	-	Open.			
45	AREA 1	ı	Initial setting input terminal.			
46	V <sub>SS</sub>		GND potential terminal.			
47	V <sub>SS</sub>		GND short.			
48	KR1	」 . ¨	Key-matrix signal input terminal.			
	KR2	<b>⊣</b> !				

No.	Symbol	1/0	Terminal Description				
50	KR3						
51	KR4	,	Key-matrix signal input terminal.				
52	KR5	l	Key-matrix signal input terminal.				
53	KR6						
54	SELF VR	1	VR position signal terminal for audio control.				
55	V		Positive power supply terminal short.				
56	V <sub>SS</sub>						
57	CONT - STATUS	1	Serial data signal input terminal from Main microcomputer.				
58	CONT - COMMAND	0	Serial data signal output terminal to Main microcomputer.				
59	CONT - SCK	I	Communication sync signal input terminal from Main microcomputer.				
60	7229 C/D	0	C/D signal output terminal to Display microcomputer.				
61	7229 BUSY	ı	Busy signal input terminal from Display microcomputer.				
62	V <sub>SS</sub>	_	GND short.				
63	7229 SI	0	Serial data output terminal to Display microcomputer.				
64	7229 SCK	0	Serial clock data output terminal to Display microcomputer.				

# 35265W02 (IC403)

	34402 (IC403)					
No.	Symbol	1/0	Terminal Description			
1	C38					
2	C39	•	California dulina signal autout torminal to ICD			
3	C40	0	Column drive signal output terminal to LCD.			
4	C41					
5	C42 / R15					
6	C43 / R14					
7	C44 / R13					
8	C45 / R12	_	Row / Column drive signal output terminal to LCD.			
9	C46 / R11	0	Row / Column drive signal output terminal to ECD.			
10	C47 / R10					
11	C48 / R9					
12	C49 / R8					
13	R15 / R7					
14	R14 / R6					
15	R13 / R5	<u>.</u>				
16	R12 / R4		Row drive signal output terminal to LCD.			
17	R11 / R3					
18	R10 / R2	]				
19	R9 / R1					
20	R8 / R0					
21	VLC5		Reference voltage input terminal to decide voltage level for Row / Column			
22	VLC1	·	drive signal to LCD.			
23	NC	_	Open.			
24	VLC4		Before a valence input terminal to decide voltage level for Pow/Column			
25	VLC2	1	Reference voltage input terminal to decide voltage level for Row/Column drive signal to LCD.			
26	VLC3					
7	DO / SI	1/0	4 bit parallel data and serial data input terminal.			
28			GND short.			
29	V <sub>SS</sub>		GIAD SHOLE.			
30	NC	_	Open.			
31						
32	BUSY	0	Busy signal output terminal.			
33	V <sub>DD</sub>		Positive power supply terminal.			
34	V <sub>SS</sub>	<u> </u>	GND terminal.			

No.	Symbol	1/0	Terminal Description			
35	STB / SCK		STB / SCK input terminal.			
36	c / D	!	Command / data input terminal.			
37	Vss	_	GND short.			
39	टड	i	Chip select signal input terminal.			
40	RESET	1	Reset signal input terminal.			
41	CLOCK	ı	Clock signal input terminal.			
42						
43	NC		Open			
44	NC	_	Open.			
45						
46	C3					
47	C4					
48	C5		•			
49	C6					
50	C7					
51	C8					
52	C9					
53	C10					
54	C11					
55	C12					
56	C13					
57	C14					
58	C15					
59	C16					
60	C17		1			
61	C18	0	Column drive signal output terminal to LCD.			
62	C19					
63	C20					
64	C21					
65	C22					
66	C23					
67	C24	1				
68	C25					
69	C26	1				
70	C27	1				
71	C28	4				
72	C29	-				
73	C30	1				
74	C31	-				
75	C32	4				
76	C33	4				
77	C34	4				
78	C35	4				
79	C36	ļ				
80	C37					

# 55433W08 (IC501)

No.	Symbol	1/0	Terminal Description
1	RESET	1	System reset input terminal.
2	X1	0	Ceramic element connection terming for system clock OSC (8MHz).
3	X2	l	Ceramic element connection terming for system clock obe (6)4712/.

# 55433W08 (IC501)

No.	Symbol	1/0	Terminal Description	
4 5	V <sub>CC</sub>		Positive power supply terminal.	
6	NMI	ï	Battery / ACC detection terminal.	
7 8	V <sub>cc</sub>	_	Positive power supply terminal.	
9	DTS SCK	0	Communication sync signal output terminal to DTS microcomputer.	
10	DTS CMD	0	Serial data output terminal to DTS microcomputer.	
11	DTS STS	l .	Serial data input terminal from DTS microcomputer.	
12	V <sub>SS</sub>		GND terminal.	
13	DTS START	0	Command sync signal output terminal to DTS microcomputer.	
14	NC	_	Open.	
15	DTS STBY	0	Stand by pulse output terminal to DTS microcomputer.	
16	DTS MUTE		Audio mute signal input terminal from DTS microcomputer.	
17	DTS CE	0	Standby control terminal to DTS microcomputer.	
18	ACC+5	ı	ACC power supply detection terminal.	
19	BAT+5	1	Battery power supply detection terminal.	
20	O. REM	0	Remote signal output terminal.	
21	EEP DI	1	Serial data input terminal from EEPROM.	
22	EEP DO	0	Serial data output terminal from EEPROM.	
23	NC NC		Open.	
24	TMR DATA	1	Timer data input terminal from Timer IC.	
25	TMR OE	0	OE signal output terminal to Timer IC.	
26	TMR CLK	0	CLK signal output terminal to Timer IC.	
27	TMR S2	Ö	Timer data inclement signal output terminal to Timer IC.	
	TMR 51	0	Correction girder choice signal output terminal to Timer IC.	
28	ACC+5	Ť	ACC power supply detection terminal.	
29	MIC L	-	Low degree signal input terminal.	
30	MIC M	1	Middle degree signal input terminal.	
31	MIC H		High degree signal input terminal.	
32	NOSE ON		Front panel detection terminal.	
33	AREA 0	<del>  '</del>	Front paner detection terminal.	
34		1	Initial setting input terminal.	
35	AREA 1	0	Voltage control terminal to LCD.	
36		1	Music ON / OFF switching signal input terminal.	
37	M.S.DET	<del>                                     </del>	GND short.	
38	AV <sub>SS</sub>		Gain control signal input terminal from M.S.IC.	
39	O.FAST	<del>                                     </del>	Metal tape detection terminal.	
40	MTL	<del>                                     </del>	FOR / REV control Terminal to TAPE EQ AMP.	
41	F/R	0	Switch to detect cassette is installed into cassette holder on not.	
42	PACK IN	1	Alarm output / audio signal switching output terminal.	
43	TP ALM		Determines start and stop of motor in GR mechanism.	
44	O.MOTOR	0	Determines start and stop of motor in GR mechanism.	
45	PULL UP	0	Eject solenoid control signal output terminal GR mechanism.	
46	EJ.SOL	<u> </u>	Positive power supply terminal.	
47	V <sub>CC</sub>	<del>  -</del>	RF solenoid control signal output terminal in GR mechanism.	
48	RF.SOL	0	Play solenoid control signal output terminal in GR mechanism.	
49	PLY.SOL	<u> </u>		
50	RUN DET	!	Signal showing take-up reel is roating or not.	
51	PACK DN	1	Switch to detect cassette holder is moved down completely.	
52	DOL B	°	Dolby B NR, ON signal output terminal.	
53	DOL C	0	Dolby C NR, ON signal output terminal.	
54	R/T	0	Tape / Radio audio signal switching output terminal.	
55	INT / EXT	0	Inside / Outside audio signal switching output terminal.	

No.	Symbol	1/0	Terminal Description			
56	V <sub>ss</sub>		GND Terminal.			
57	E.V.CE	0	Standby control terminal to Electric Volume IC.			
58	E.V.CLK	0	Communication sync signal output terminal to Electric Volume IC.			
59	E.V.DATA	0	Serial data output terminal to Electric Volume IC.			
60	PRE MUTE	0	Pre-out audio mute signal output terminal.			
61	NC		Open.			
62	BUS DET	ı .	Busline date detection terminal.			
63	BUS RST	0	Reset signal output terminal to Bus IC.			
64	BUS R/W	0	Read / Write signal output terminal to Bus IC.			
65	BUS RS	0	Resister signal output terminal to Bus IC.			
66	BUS STS	1	Serial data input terminal from Bus IC.			
67	BUS CMD	0	Serial data output terminal to Bus IC.			
68	BUS CLK	0	Communication sync signal output terminal to Bus IC.			
69	IN PAU	1	Pause signal input terminal.			
70	IN INT	ı	Interrupt signal input terminal.			
71	P. ON CONT	0	Power control signal output terminal.			
72	LCD P. ON	0	Power control signal output terminal for LCD back light.			
73	V <sub>SS</sub>	_	GND Terminal.			
74	NOSE PON	0	Power control signal output terminal for Display microcomputer and driver.			
75	CONT RST	0	Reset control signal output terminal to Display microcomputer.			
76	NC		Open.			
77	CONT STR	0	Command sync signal output terminal to Display microcomputer.			
78	CONT STS	0	Serial data output terminal to Display microcomputer.			
79	CONT CMD	i	Serial data input terminal to Display microcomputer.			
80	CONT SCK	0	Communication sync signal output terminal to Display microcomputer.			

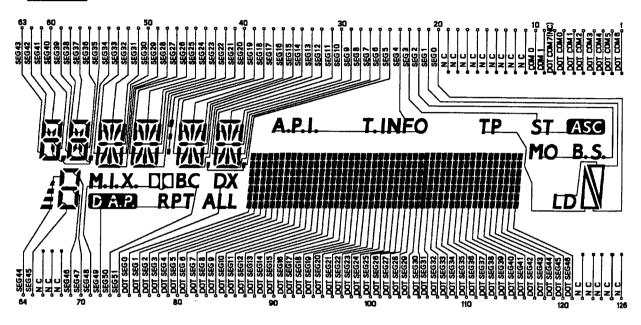
# 45258W02 (IC504)

	, , , , , , , , , , , , , , , , , , ,					
No.	Symbol	1/0	Terminal Description			
1	CE1	0	CE1 control terminal for S·RAM.			
2	NC	_	Open.			
3	DTS MUTE	0	Audio mute output terminal.			
4	7073 RESET	0	Control the reset for LC7073M.			
5	50KREF	0_	High output when REF frequency becomes 50kHz in FM mode.			
6	RESET	1	System reset input terminal.			
7	X2	_	Output terminal for system clock OSC.			
8	X1		Output terminal for system clock OSC.			
9	V <sub>SS</sub>		GND terminal for device.			
10	CE2	0	CE2 control terminal for S · RAM.			
11						
12	NC	_	Open.			
13	INC		орен.			
14		<u> </u>				
15	A10					
16	A9		Input / Output terminal for S · RAM address signal.			
17	A8					
18	AD7					
19	AD6					
20	AD5	1/0	Input / Output terminal for S-RAM address signal.			
21	AD4	] ''Ŭ	input output territing for a factor address signal.			
22	AD3					
23	AD2					
24	V <sub>SS</sub>		GND terminal for device.			

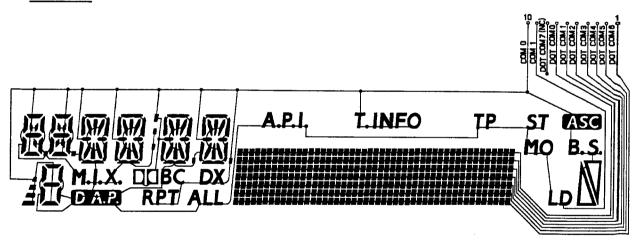
No.	Symbol	1/0	Terminal Description				
25	AD1 AD0	1/0	Input / Output terminal for S · RAM address signal.				
26 27	LE	0	LE control terminal for latch.				
28	DTS STB	<del>-</del> i	Return from standby to DTS.				
29	RDS CLK	<del>-</del>	Communication data sync signal input terminal from LC7073M.				
30	RDS START	i	Data sync signal input terminal from LC7073M.				
31	RDS DATA	<u>-</u>	Serial data input terminal from LC7073M.				
32	PLL DATA IN	i	PLL data input terminal.				
33	PULL UP	<u>_</u> _	Pull up terminal.				
34	DTS START	1	Command sync signal input from main microcomputer.				
35	DTS CMD	<u> </u>	Serial data input terminal from main microcomputer.				
36	V <sub>SS</sub>		GND short.				
37	NC VSS		Open.				
38	DTS CLOCK	1	Communication data sync signal input terminal from Main microcomputer.				
39	DTS STATUS	0	Serial data output terminal to main microcomputer.				
40	013 31A103						
41	V <sub>cc</sub>		Power supply terminal for device.				
42	AV <sub>SS</sub>		GND terminal for A / D converter.				
43	AV <sub>REF</sub>		Reference Voltage input terminal for A/D converter.				
44	ST		Stereo signal input terminal.				
45	PULL UP		Pull up terminal.				
46	PULL UP	_	Pull up terminal.				
47	MULTIPATH	1	Port detects multipath interference of station.				
48	ADJON	1	Port detects multipath interference of station.				
49	S.METER	ı	Signal meter input terminal.				
50	PULL UP		Pull up terminal.				
51	PULL DOWN	_	Pull down terminal.				
52	PLL CLOCK	0	Communication data sync signal output terminal.				
53	PLL DATA	0	Serial data output terminal.				
54	LPE SW	0	LPF time constant switching terminal to obtain fast response in AF search and FM seek operation.				
55	IF MUTE	0	Mute output terminal to prevent shock noises in AF search operation.				
56	PLL CE	1 0	Data communication control signal output terminal.				
57	NC NC	<del>                                     </del>	Open.				
58	LW	0	LW band selection terminal.				
59	FM / AM	0	FM / AM (MW / LW) bands selection terminal.				
60	LOCAL / DX	0	SEEK sensitivity switch control output terminal.				
61	MONO	0	Stereo / Mono switch control output terminal.				
62	DTS CE	<del>                                     </del>	Terminal to make DTS in standby status.				
63	SD	<del>                                     </del>	Station detector signal input terminal for FM / AM.				
	WR	0	F·RAM WE control signal.				
64	J WR	1 0	F. IVANA AAE COULTON SIGNAL				

# **LCD** Display

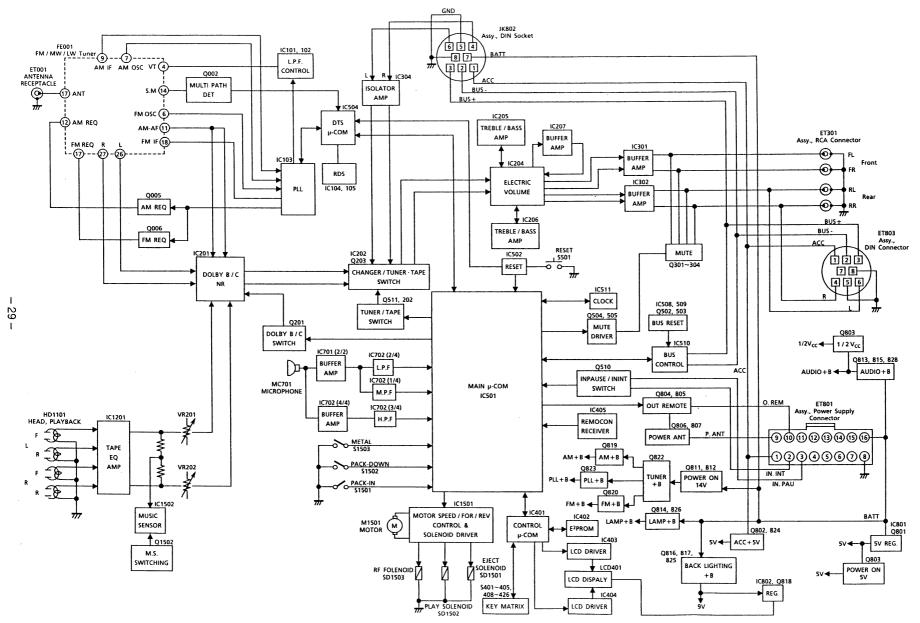
**SEGMENT** 



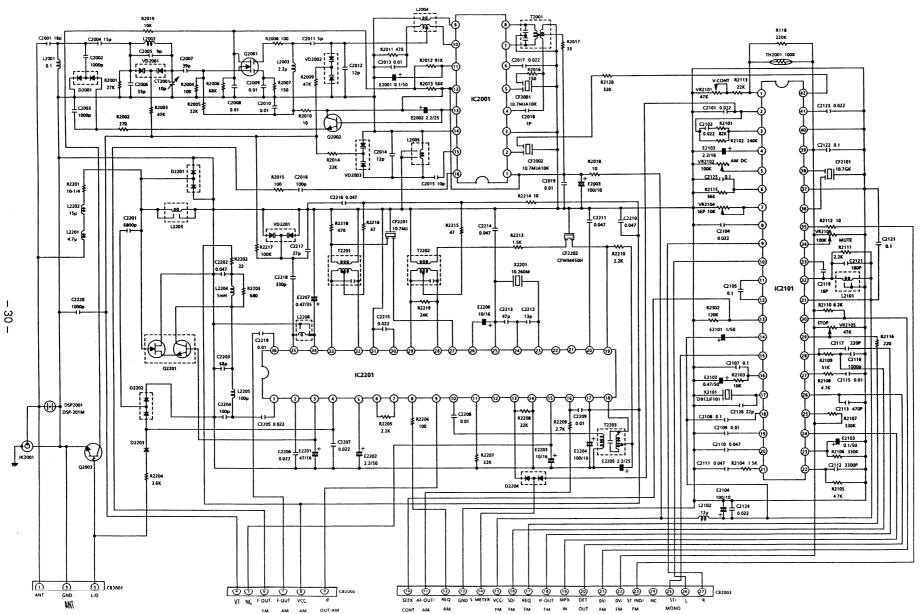
# **COMMON**



# **Block Diagram**

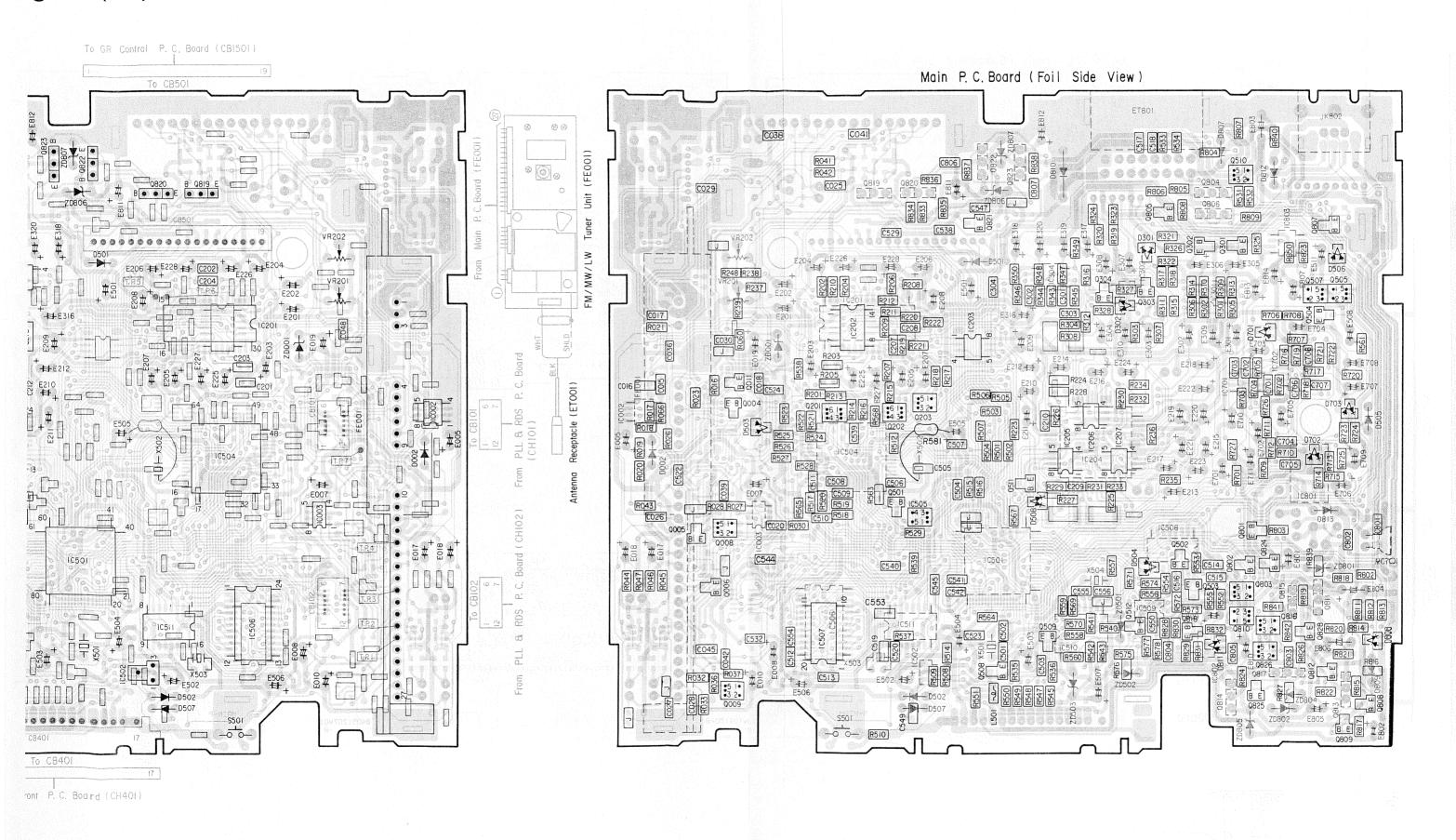


# Tuner Schematic Diagram



# Parts Layout on P.C. Boards and Wiring Diagram (1/2) To GR Control P. C. Board (CBI501) Main P. C. Board (Component Side View) E213 **- □** From Front P. C. Board (CH401) **-** 32 -

# ıgram (1/2)



Orange Color Pattern: Component Side Pattern
Blue Color Pattern: Foil Side Pattern

- 33 -

D E

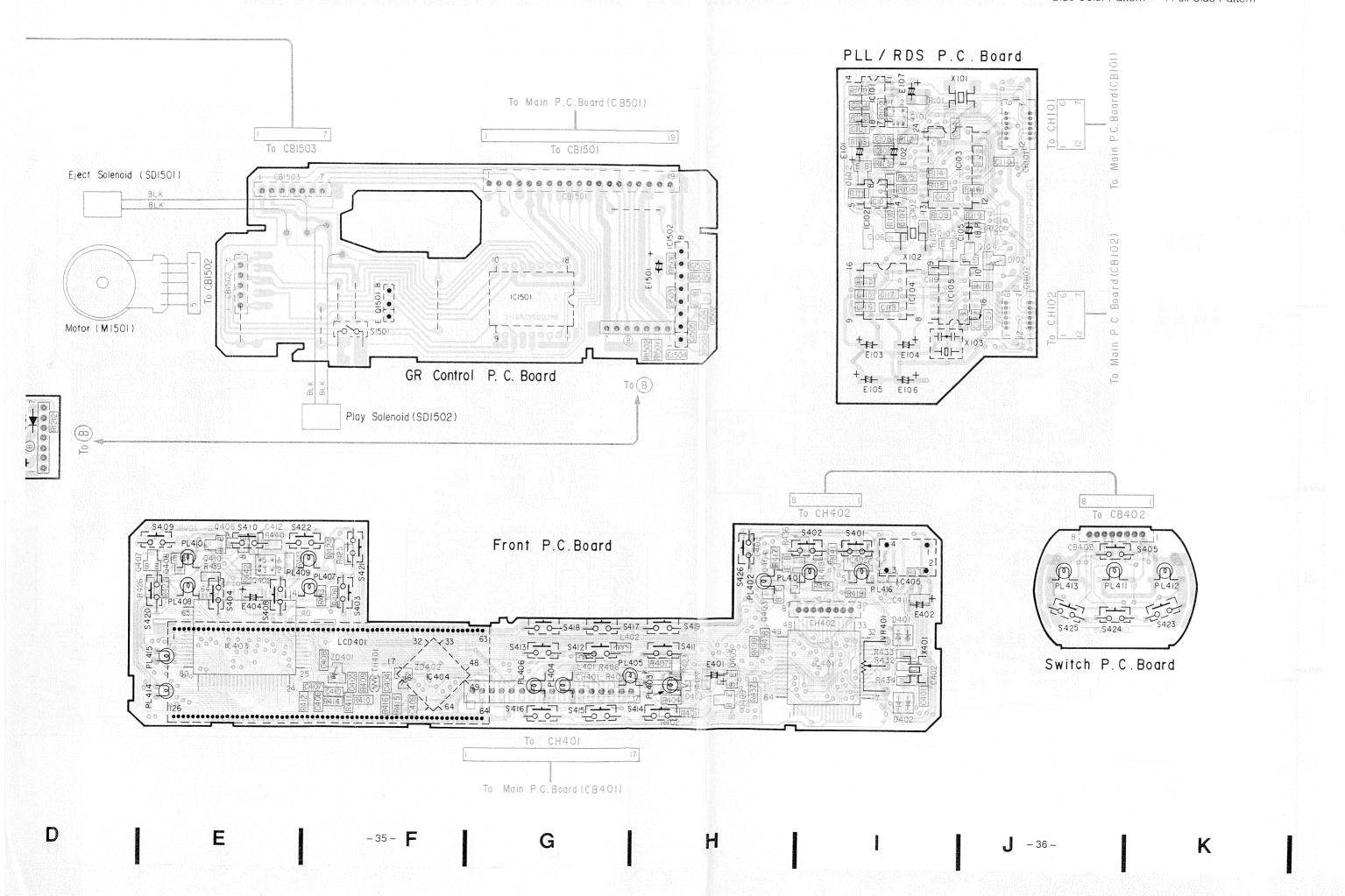
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# Schematic Diagram (1/5) 0823 Main P.C.Board (1/3) IC508 MC14538BFEL ET001 C508 100P AM REQ H□H 85€ C505 27P R026 10K R520 47K W C511 100P R517 47K W C542 100P C541 100P 0.022×2 C027 C028 5 H G

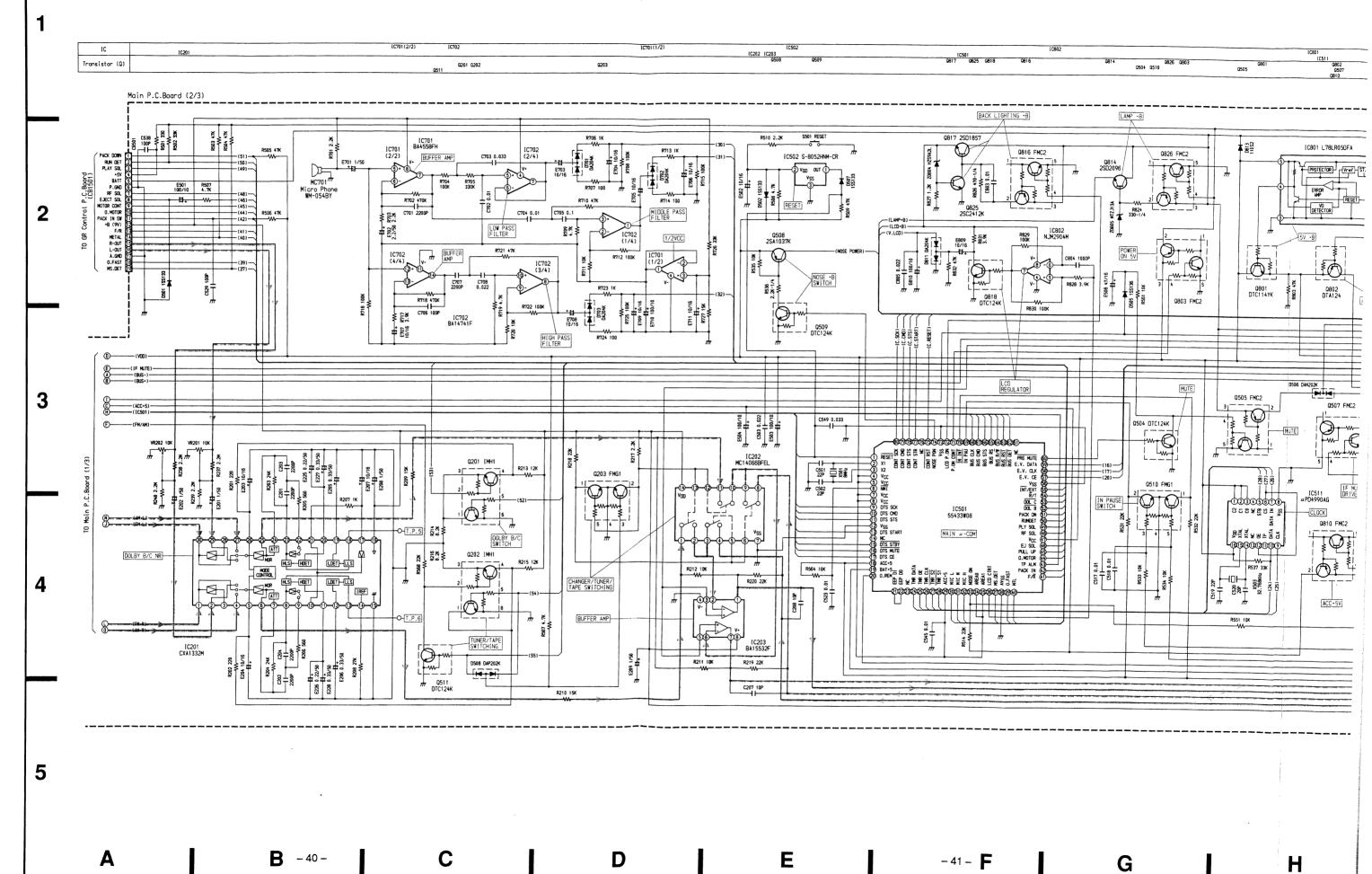
**NOTES:**1. All resistance values are in ohms. K = 1,0002. All capacitance values are in microfarads.  $P = \frac{1}{1,000,000}$ 

	EC504	D8 [C509 (2/2)	10504	IC510	[C505   C506	IC509 (1/2) IC507	7
0819 Q	0821 0820 0822 0004 0008	Q823	Q503 Q502		Q501	Q512	
RS53 330K 100P  RS53 330K  RS53 RS54 RS54 RS54 RS54 RS54 RS54 RS54 RS54	CS01   CS01	VREF 1 - CONTROL   G R   CONTR	DTC124K  (68) - (77) -	VCC (1) C508 100P E506 STATUS (3) I   STATUS (3) STATUS	CSSE 189 BS41 39-1/4  RS42 39-1/4 X 2  RS43 39-1/4 X 2  RS42 39-1/4 X 2  RS43 39-1/4 X 2  RS42 39-1/4 X 2  RS43 39-1/4 X 2  R	(1/2) (1/2)	COO2

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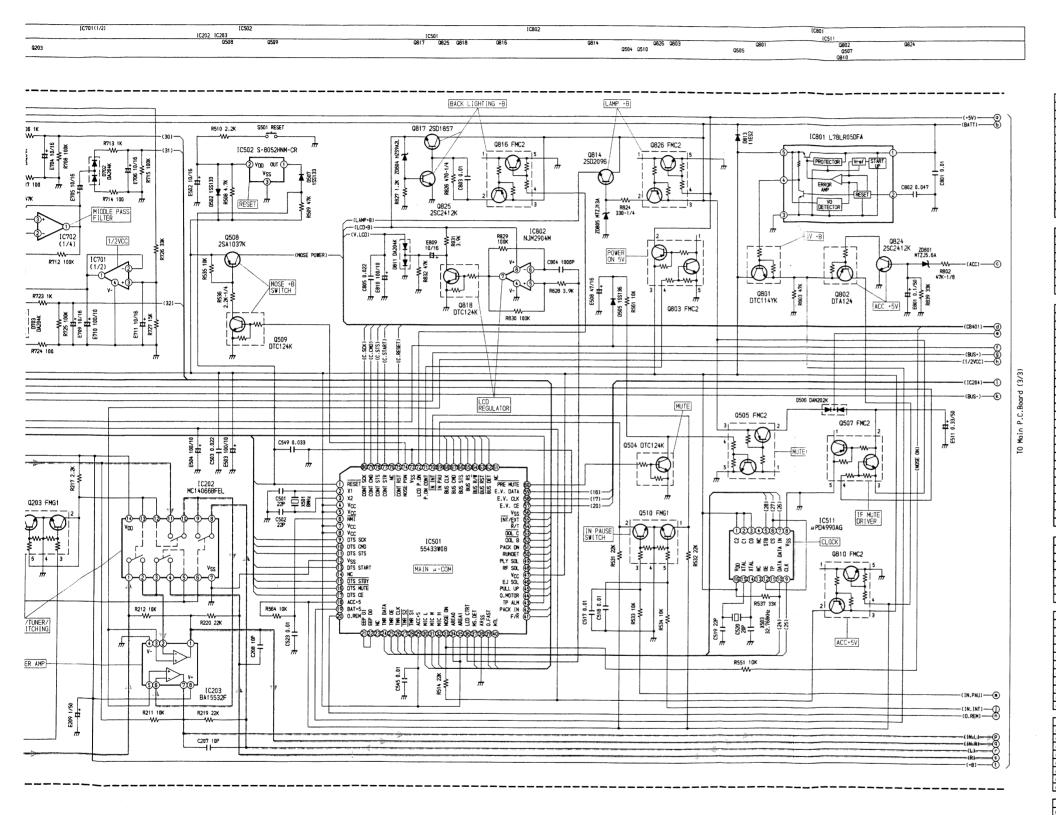
TDA-7638F

# Schematic Diagram (2/5)

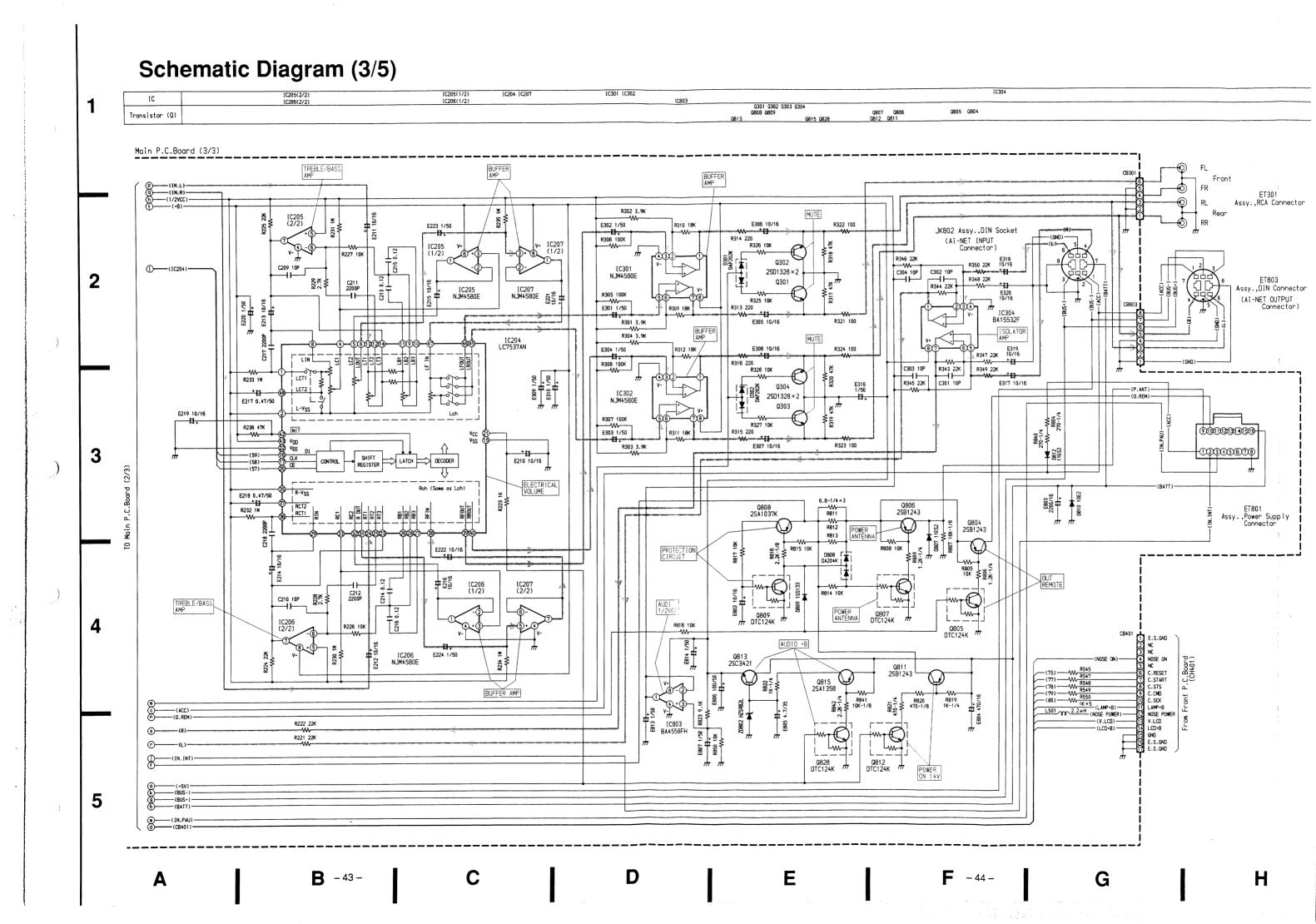


#### NOTES:

- 1. All resistance values are in ohms. K = 1,000
- 2. All capacitance values are in microfarads.  $P = \frac{1}{1,000,000}$



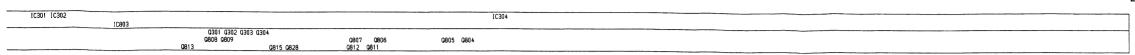
IC20	1					IC202	,				
1	4.2V		16	8.4V				2V TP, RADIO	D/CD		
2	4.2V		17	4.2V		2	4.3V / 4.	2V TP, RADIO	D/CD		
3	4.2V		18	4.2V 0.4V	+	4	4.3V / 4.3 4.2V	2V TP, RADIO	D/CD		
5		2V TAPE / AM / FM	20	0.4V		5		V TP, RADIO	D/CD		
6	4.2V		21	4.2V		6		V TP, RADIO			
7	4.2V		22	4.2V		7	0V				
9	4.2V 4.2V		23	4.2V 4.2V	+	9	4.2V	21/ 70 0401	2.52		
10			25	4.2V		_		2V TP, RADIO 2V TP, RADIO			
11	0.4V		26	0V / 3.7V / 7.5	V DOLBY OFF / B / C			2V TP, RADIO			
12	. 0.4V		27	4.2V				V TP, RADIO			
13	4.2V 1.3V		28	4.2V	+	13	7.7V / 0 8.5V	TP, RADIO	D/CD		
15	ov		30	4.2V		L 14 1	0.34				
IC20	3		IC502								
1	4.3V		1	4.8V							
2	4.3V / 4.2V	TP, RD / CD	2	5V							
4	4.2V 0V		3	0V							
5	4.2V										
6	4.3V / 4.2V	TP, RD / CD									
1	4.3V										
8	8.50										
IC50	5V		28	PS	T		55	0V / 5V	INT / EXT, TP ALM		
2	PS		29	5V	<del></del>		56	0V/3V	INI /EXI, IP ALM		
3	PS		30	0V	ASC		57	PS			
4	5V		31	0V	ASC		58	PS			
6	5V 4.2V		32	2.4V / 4.9V or	ASC NOSE ON /	OEE	59	PS	DDC MUTE ON 105		
7	5V		34	5V	OV NOSE ON /	orr	60	0V / 5V	PRE MUTE ON / OFF		
8	5V		35	5V			62	PS			
9	PS		36	0.8V / 3.5V / 9			63	5V			
10	PS PS		37	4.9V / 0V	M.S OFF/	ON	64	PS PS			
12	ov		39	5V / OV	CUE, REV / P	LAY	66	PS PS			
13	PS		40	4.9V / OV	METAL / NOR		67	PS			
14	=		41	5V / 0V	FOR / REV		68	PS			
15	PS 5V / 0V	DTS MUTE ON / OFF	42	5V/0V PS	PACK IN / C		69 70	0V / 4.1V	IN PAU ON / OFF		
17	PS	DIS MOTE ON OT	44	5V / OV	T/R		71	0V / 4.1V 5V / 0V	POWER ON / OFF		
18	4.2V / 0V	ACC ON / OFF	45	5V / 0V	FOR / REV	/	72	5V / 0V	LCD ON / OFF		
19	4.2V		46	5V / 0V	EJECT / OTH	IER	73	0V			
20	5V / 0V	INT / EXT	48	5V 5V/0V	FF / REW		74 75	5V / 0V	NOSE POWER ON / OFF		
22	ov		49	5V/0V	FF, REW, CUE, RE		76	-			
23			50	PS			77	PS			
24	PS		51	SV/OV	PACK DOWN		78	PS			
25 26	rs rs		52	5V / 0V	DOLBY B OFF		79 80	PS PS			
27	PS		54	5V / 0V	TAPE / RADIO, 1						
IC51	t		IC70	1	IC702			IC801	IC802		
1	5V	9 PS	_	2.6V	1 2.6V		2.6V	1	14V 1 -		
3	5V	10 PS	2	2.6V	2 2.6V		2.6V	2	5.70 2 -		
4	5V	12 PS	3	2.6V 0V	3 2.6V 4 8.4V	_	0V	3 4	0V 3 -	<del>.</del>	
5	PS	13 —	5	2.6V	5 2.5V	_	2.6V	5		5V	
- 6	PS	14 PS	6	2.6V	6 2.7V		2.6V			4V	
7 8	PS OV	15 PS	7 8	2.6V 8.4V	7 2.7V	14 2	2.6V			4V	
		·* 1 34	لث	0.74					8 8.	8V	
	E	C	В	MODE							
Q504	0V	9.6V / OV	0V /		ON /OFF						
Q508 Q509	5V 0V	5V / 0V 0.1V / 5V	4.3V		ON / OFF						
Q511	0V	0.1V/5V 0V/4.4V	0V /		ON / OFF						
Q801	4.2V	5V	4.9								
Q802	4.2V	4.2V / 0V	0V / 4		N / OFF				•		
Q814 Q817	12.2V / 0V 8.8V / 0.1V		12.8V 9.4V		R ON / OFF						
Q818	0V	3.3V / 1.2V / 0.3V									
Q824	0V	0V / 4.2V	0.7V	/OV ACC C	N / OFF						
Q825	OV	9.4V / OV	0.6V	/OV LCD O	N / OFF						
	1 1	2	1	1	5 1	MODE		7			
Q203	0V / 8.4V		V / 4.3V	ov		HANGER		√ < N	fleasuring Cond	itions>	
Q505		14V/0V 14V	// 14.4V	9.6V / OV	0V POWER	ON / OFF		] 1.	Power Supply Volt	age	: DC14.4V
Q507			1V / 14V	5V / 0V		E ON / OFF		1	Measuring Meter	-	: Digital Multi Volt Meter
Q510 Q803	0V / 4.1V	0V / 4.1V 10. 4.9V / 0V	5V / 0V	5V / 0V		(IN INT) O	N / OFF	4	-	afar	
Q810		5V / OV	50	4.1V/0V	0V ACC OF				Measuring Point R Measuring Conditi		: Between Ground
Q816	=	14V / 0V 14.1	V / 14.4V	5V / 0V	OV LCD ON	N / OFF		] ·	casaring Conditi	U113	: No Signal Input FM 98.1MHz
Q826		14V / 0V 14.1	V / 14.4V	4.9V / 0V	0V POWER	ON / OFF		J			FM 98.1MHz MW 999kHz
	1	1 2 1	3	4	5	6	144	ODE			LW 216kHz
Q201	0V / 3.7V / 0	V 5V/5V/0V 0V/	3.7V / 0V	0V / 3.7V / 7.5			OLBY O				TAPE Blank
Q202	0V / 4.2V	2.8V / 4.4V 0V	/3.1V	0V / 4.2V	5V / 0V		APE / RA				

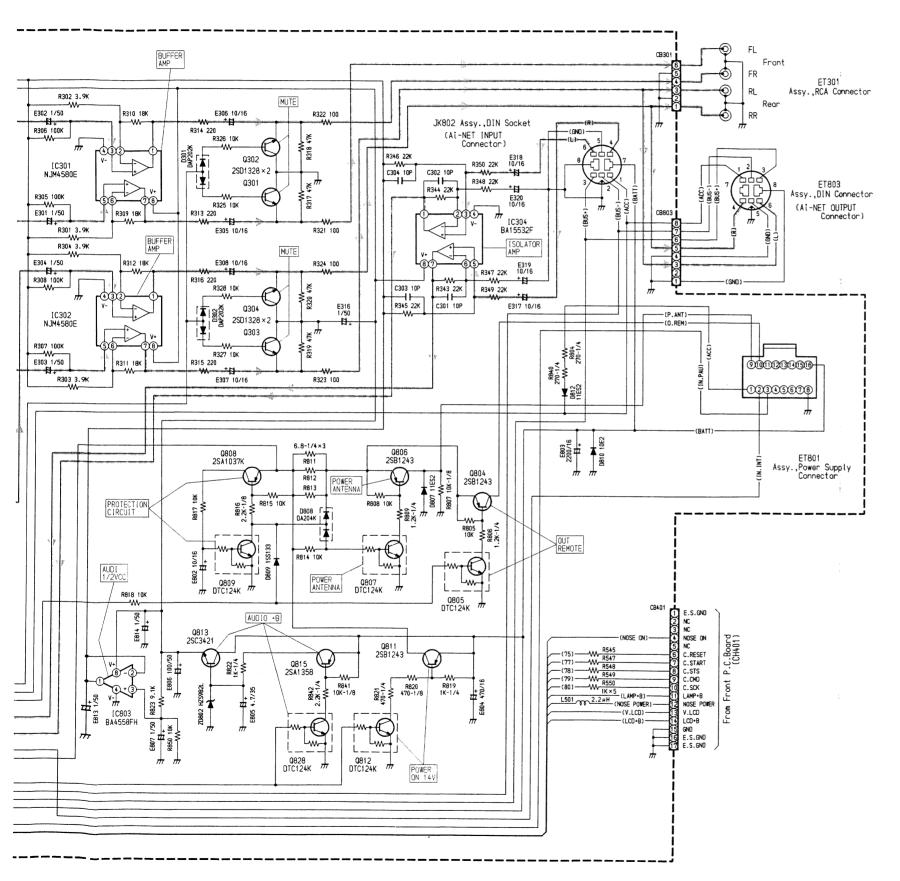


## NOTES:

1. All resistance values are in ohms. K = 1,000

2. All capacitance values are in microfarads.  $P = \frac{1}{1,000,000}$ 





Switch P.C.Board	
From Front P. C. Board (CH402)	Ŷ .
S.3.24 O O O O O O	TUSEY GAND

IC204	1				
1	3.8V	17	PS	33	4.2V
2	4.2V	18	_	34	_
3		19	-	35	4.2V
4	4.2V	20	PS	36	4.2V
5	4.2V	21	4.9V	37	4.2V
6	4.2V	22	0V	38	4.2V
7		23	4.2V	39	4.2V
8	4.2V	24	4.2V	40	4.2V
9	4.2V	25	4.2V	41	
10	4.2V	26	4.2V	42	8.3V
11	4.2V	27	4.2V	43	8.4V
12	4.2V	28	4.2V	44	
13	4.2V	29	4.2V	45	4.2V
14	4.2V	30		46	4.2V
15	0V	31	4.2V	47	4.2V
16	PS	32	4.2V	48	4.2V

ICZU:	<u> </u>	10200	<u> </u>	_IC20	7
1	4.2V	1	4.2V	1	4.4V
2	4.2V	2	4.2V	2	4.4V
3	4.2V	3	4.2V	3	3.7V
4	OV	4	٧O	4	0∨
5	4.2V	5	4.2V	5	3.7V
6	4.2V	6	4.2V	6	4.4V
7	4.2V	7	4.2V	7	4.4V
8	8.4V	8	8.4V	8	8.4V
204	202 20				

IC301,	, 302, 304	IC80	3
1	4.3V	1	4.2V
2	4.2V	2	4.2V
3	4.2V	3	4.2V
4	0V	4	0V
_ 5	4.2V	5	_
6	4.2V	6	_
7	4.3V	. 7	_
8	8.4V	8	8.9V

	E	C	В	MODE
Q301	0V	0V	0.7V / 0V	MUTE ON/OFF
Q302	ov	0V	0.7V / 0V	MUTE ON/OFF
Q303	0V	0V	0.7V / 0V	MUTE ON/OFF
Q304	0V	. OV	0.7V / 0V	MUTE ON / OFF
Q804	13.9V / 14V	13.9V / 0V	13.3V / 14V	INT / EXT
Q805	0V	0.1V / 14V	3.7V / 0V	INT / EXT
Q806	14V / 0V	14V / 0V	13.4V / 0V	POWER ON / OFF
Q807	0V	0.1V / 0V	9.8V / 0V	POWER ON / OFF
Q808	14.1V	0V	14V	
Q809	0V	14V	0V	
Q811	14.1V / 14.4V	14V / 0V	13.4V / 14V	POWER ON / OFF
Q812	0V	0.1V / 14.4V	4.9V / 0.1V	POWER ON / OFF
Q813	8.2V / 0V	14.1V / 14.4V	8.9V / 0V	POWER ON / OFF
Q815	14.1V / 14.4V	14.1V /0V	14.4V	POWER ON / OFF
Q828	ov	0.1V / 14.4V	4.9V / 0V	POWER ON / OFF

#### <Measuring Conditions>

1. Power Supply Voltage : DC14.4V

2. Measuring Meter : Digital Multi Volt Meter 3. Measuring Point Reference : Between Ground

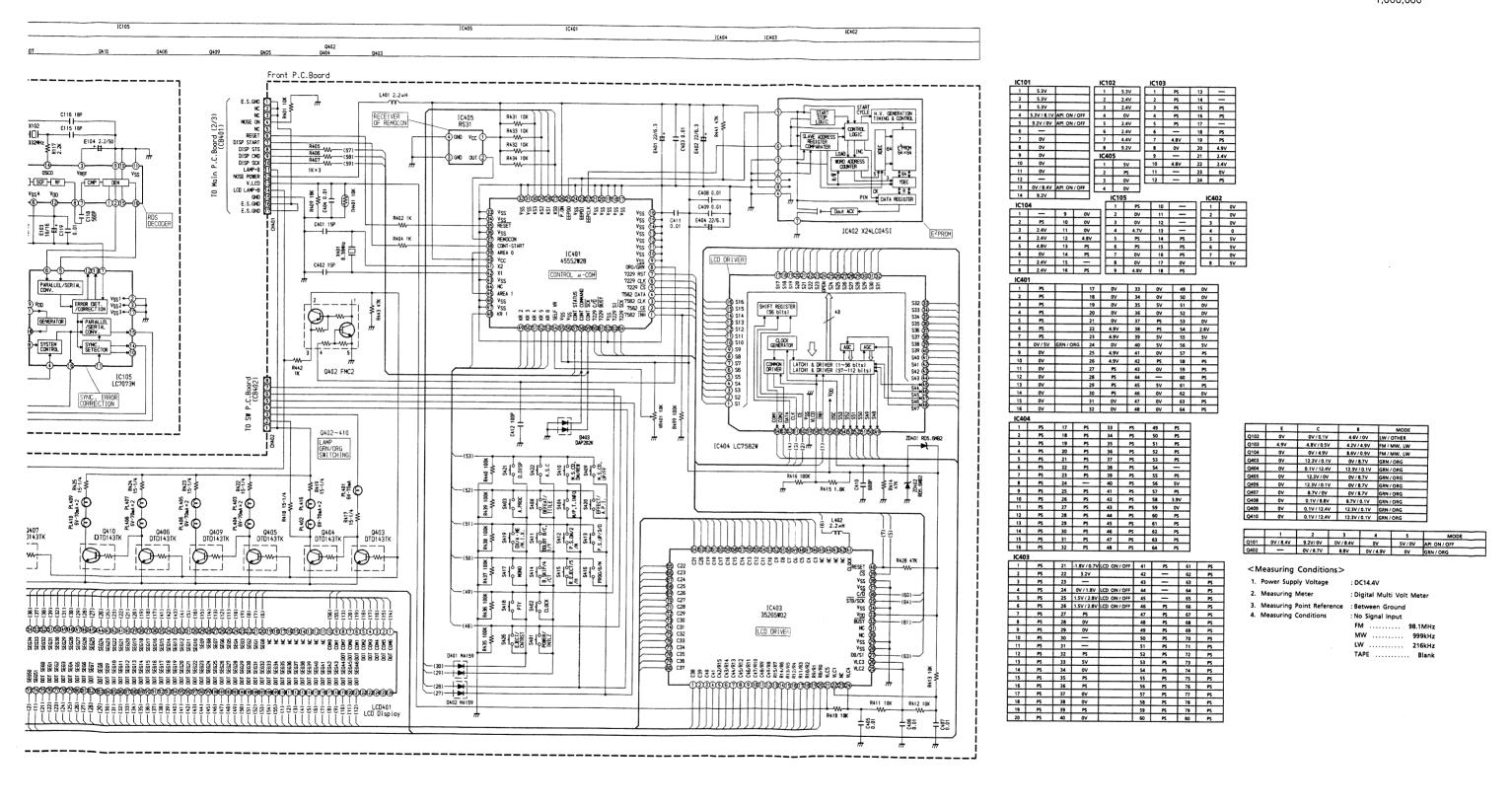
4. Measuring Conditions : No Signal Input

FM ..... 98.1MHz MW ..... 999kHz LW ..... 216kHz TAPE ..... Blank

# **J** -45-

# NOTES:

- 1. All resistance values are in ohms. K = 1,000
- 2. All capacitance values are in microfarads.  $P = \frac{1}{1,000,000}$



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TDA-7638R TDA-7638R

# Schematic Diagram (5/5)

B

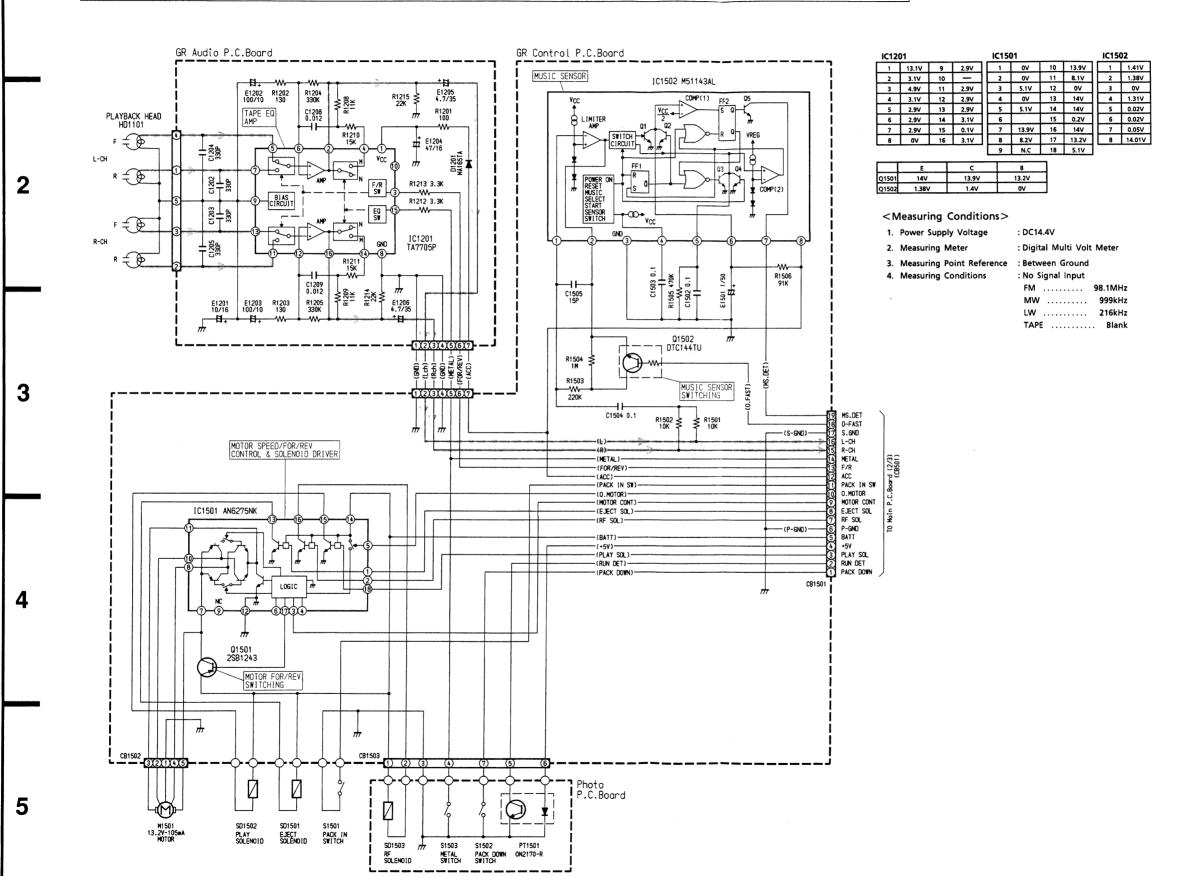
**– 49 –** 

IC	IC1501	IC1201	IC1502	
Transistor (Q)	Q1501		Q1502	

### NOTES:

**F** -50 -

- 1. All resistance values are in ohms. K = 1,000
- 2. All capacitance values are in microfarads.  $P = \frac{1}{1,000,000}$



D

# **Electrical Parts List**

Resistor: Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.

Capacitor :  $\mu F = microfarads$ , pF = picofarads

		- Capacito	. μ	raraus, pr – prec	
	Resistor	reviations CAP.= Capacitor ELY.= Electrolytic	Symbol No.	Part No.	Description
M.F.=	Carbon Film Metal Film	CER. = Ceramic	Trans	sistors	
	Metal Oxide File	TAN.= Tantalum	Q004	48T62966F03	CP., DTA124
	Metal Plate	POLY.= Polystyrol	Q004 Q005	48T62967F03	CP., DTC124K
	Transistor Transformer	PP.= Polypropylene			CP., DTC124K
CP.=		PLT. = Polyethylene	Q006	48T62967F03	
CP.	Chip	PF. = Polyester Film	Q008	48T73888F08	CP., FMG1
		Tite Volyester viiii	Q009	48T73888F08	CP., FMG1
Cumbal			0044	40753057500	CD DTC114TV
Symbol No.	Part No.	Description	Q011	48T62967F09	CP., DTC114TK
			Q201	48T94471F03	CP., IMH1
	Main	P. C. Board	Q202	48T94471F03	CP., IMH1
	IVIAIII	P. C. Board	Q203	48T73888F08	CP., FMG1
IC's			Q301	48T63788F04	CP., 2SD1328
IC002	51T65379F12	BA4558F	Q302	48T63788F04	CP., 2SD1328
or	51T65379F22	XRA4558FH	Q303	48T63788F04	CP., 2SD1328
IC003	51T55352W02		Q304	48T63788F04	CP., 2SD1328
IC201	51T25767W02		Q501	48T80674F01	FET, CP. 2SK621
IC201	51T40941U02	MC14066BFEL	Q502	48T62967F03	CP., DTC124K
10202	31140341002				·
IC203	51T25154W21	XRA15532F	Q503	48T62966F03	CP., DTA124
or	51T25154W11		Q504	48T62967F03	CP., DTC124K
IC204	51T72016F02	LC7537AN	Q505	48T73888F12	CP., FMC2
IC205	51T25576W04		Q507	48T73888F12	CP., FMC2
IC205	51T25576W04		Q508	48T63420F01	CP., 2SA1037K
10200	31123370000	14514145602	1	1.0.00	
IC207	51T25576W04	NJM4580E	Q509	48T62967F03	CP., DTC124K
IC301	51T25576W04		Q510	48T73888F08	CP., FMG1
•	51T25576W04		Q511	48T62967F03	CP., DTC124K
IC302	51T25154W11		Q512	48T62967F08	CP., DTC144W
IC304			Q801	48T62967F06	CP., DTC114YK
or	51T25154W21	ARA 15352F	900.	70102307100	C., 5707777
IC501	51T55433W08	55433W08	Q802	48T62966F03	CP., DTA124
IC502	51T95014F13	S-8052HNM-CR	Q803	48T73888F12	CP., FMC2
IC504	51T45258W02		Q804	48T84366F01	2SB1243
IC505	51T93532F04	TS4S81F	Q805	48T62967F03	CP., DTC124K
IC506	51T84723F02	LC3516AML	Q806	48T84366F01	2SB1243
10,000	31104723102	2005 107 11112			
IC507	51T55640W01		Q807	48T62967F03	CP., DTC124K
IC508	51T25370W01	MC14538BFEL	Q808	48T63420F01	CP., 2SA1037K
IC509	51T93332F01	NJM2903M	Q809	48T62967F03	CP., DTC124K
IC510	51T55070W04	MB88385APF	Q810	48T73888F12	CP., FMC2
IC511	51T55638W01	μPD4990AG	Q811	48T84366F01	2SB1243
IC701	51T65379F12	BA4558FH	Q812	48T62967F03	CP., DTC124K
	51T65379F12	XRA4558FH	Q812 Q813	48T69176F01	25C3421
or	51T163379F22	1	Q814	48T25169W01	2SD2096
IC702	1		Q815	48T69177F01	2SA1358
or IC801	51T16239W22 51T15268W03	L78LR05DFA	Q815 Q816	48T73888F12	CP., FMC2
10801	J 11 13200 VV U3	LIGEROSDIA	~~~	1.5.7.55551.12	,
IC802	51T93333F01	NJM2904M	Q817	48T55057W01	2SD1857
IC803	51T65379F12	BA4558FH	Q818	48T62967F03	CP., DTC124K
or	51T65379F22	XRA4558FH	Q819	48T84234F03	2SB1238
<b>'</b>	311033/3122	740 (4000) 11	Q820	48T84234F03	2SB1238
I			Q821	48T62967F03	CP., DTC124K
l					
ı			Q822	48T15289W03	2SD2008
I			Q823	48T93828F01	2SD1994A
			l I		

_		7			T	
	Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
r	Q824	48T63417F01	CP., 2SC2412K	Coil		
ı	Q825		CP., 2SC2412K	1504	247464031440	Industry 2 2011
ı	Q826	48T73888F12	CP., FMC2	L501	24T16403W19	Inductor, 2.2µH
l	Q828	48T62967F03	CP., DTC124K			
ı						
l					L	
ı				Cryst		
r	Diod	٥٢		X501		8MHz
L				X502		7.3728MHz
ı	D002	48T68828F11	155133	X503	91T15849W02	
ı	D301	48T63463F01	CP., DAP202K	X504	91T45118W12	4MHz
ı	D302	48T63463F01	CP., DAP202K	l		
ı	D501	48T68828F11	155133			
ı	D502	48T68828F11	1SS133			
ı	D503	48T63462F01	CP., DAN202K	<u></u>		L
1	D504	48T63462F01	CP., DAN202K	Capa	citors	
	D505	48T70933F11	155136	E005	23S61523F25	ELY., 0.1μF / 50V
ı	D506	48T63462F01	CP., DAN202K	E007	23S61523F25	ELY., 0.1μF / 50V
	D507	48T68828F11	155133	E008	23S61523F28	ELY., 0.47μF / 50V
				E010	23S61523F28	ELY., 0.47μF / 50V
	D508	48T63463F01	CP., DAP202K	C015	08S65128F69	CP., 0.01µF
ı	D701	48T64134F01	CP., DA204K			
ı	D702	48T64134F01	CP., DA204K	C016	08S65128F35	CP., 100pF
1	D703	48T64134F01	CP., DA204K	C017	08S65128F69	CP., 0.01μF
ı	D807	48T84052F11	11ES2	E017	23T25149W05	
ı		İ		C018	08T15399W01	CP., 0.022μF
ı	D808	48T64134F01	CP., DA204K	E018	23T25149W05	ELY., 1μF / 50V
ı	D809	48T68828F11	1SS133			
ı	D810	48T81044F01	10E2	E019	23S61523F34	ELY., 100μF / 10V
ı	D811	48T64134F01	CP., DA204K	C020	08S65128F69	CP., 0.01μF
ı	D812	48T84052F11	11ES2	C025	08S65128F62	CP., 2700pF
ı			44553	C026 C027	08S65128F68 08T15399W01	CP., 8200pF CP., 0.022µF
١	D813	48T84052F11	11ES2	C027	001133334401	Сг., 0.022рг
ı	ZD001		Zener, HZS9C1L Zener, MTZJ7.5A	C028	08T15399W01	CP., 0.022µF
ı	ZD501	48T45012W35	1 .	C028	08S53332F47	CP., 0.01µF
ı	ZD502	48T45012W39	Zener, MTZJ6.2A	C030	08S65128F69	CP., 0.01µF
١	ZD503	401430124429	Zerier, Witzjo.za	C036	08565128F35	CP., 100pF
	ZD801	48T45012\N/26	Zener, MTZJ5.6A	C038	08565128F35	CP., 100pF
	ZD801 ZD802	48T25766W22	Zener, HZS9B2L			
1	ZD802 ZD804	ı	Zener, HZS9A2L	C039	08S65128F43	CP., 220pF
	ZD805	48T45012W54	Zener, MTZJ13A	C041	08T15399W01	1 '
	ZD806	48T25766W24	Zener, HZS9C1L	C042	08S65128F35	CP., 100pF
			·	C045	08T15807W05	• •
	ZD807	48T25766W01	Zener, HZS6A1L	C046	08S65128F69	CP., 0.01μF
						2200 5
Į				C201	08T55401W17	
			<b> </b>	E201	23T25149W05	
L		L		C202	08T55401W17	
1	Swit	ch	l	E202 C203	23T25149W05 08T55401W17	•
H	S501	40T16096W01	Switch Tact, SKHHLW (RESET)	C203	001334014417	220001
	3301	401100300001	SWITCH FACE, SKHILLER (RESEL)	E203	23T25149W09	ELY., 10µF / 16V
			.	C204	08T55401W17	1 '
				E204	23T25149W09	I
ŀ		<del></del>	L	E205	23T25149W03	
	Micr	ophone		E206	23T25149W03	1 .'
r	MC701	50T35317W02	WM-054BY			'
ı				C207	08582122F13	CP., 10pF
				E207	23T25149W09	ELY., 10µF / 16V
L	· · · · · · · · · · · · · · · · · · ·				<u> </u>	1

Symbol No.	Part No.	De	escription	Symbol No.	Part No.		Description
C208	08582122F13	CP.,	10pF	E501	23S61523F34	ELY.,	100μF / 10V
	23T25149W05	ELY.,	1μF / 50V	C502	08S82122F21	CP.,	. 22pF
E208		•	10pF	E502	23S61523F12	ELY.,	10µF / 16V
C209	08S82122F13	CP.,		C503	08T15399W01	CP.,	0.022µF
E209	23T25149W05	ELY.,	1μF / 50V	E503	23\$61523F34	ELY.,	100µF / 10V
C210	08582122F13	CP.,	10pF	E303	25301525154	LL1.,	100р1 / 104
		FIN.	10 [ / 16\/	C504	08S65128F69	CP.,	0.01µF
E210	23T25149W09	ELY.,	10μF / 16V	1	1	ELY.,	100µF / 10V
C211	08T55401W17	CP.,	2200pF	E504	23S61523F34		'
E211	23T25149W09	ELY.,	10μF / 16V	C505	08582122F23	CP.,	27pF
C212	08T55401W17	CP.,	2200pF	E505	23561523F34	ELY.,	100μF / 10V
E212	23T25149W09	ELY.,	10μF / 16V	C506	08S82122F23	CP.,	27pF
							100 5 / 40) /
C213	08T15559W26	TF,	0.12μF	E506	23S61523F34	ELY.,	100μF / 10V
E213	23T25149W09	ELY.,	10μF / 16V	C507	08T15399W01	CP.,	0.022µF
C214	08T15559W26	TF,	0.12μF	E507	23S61523F34	ELY.,	100µF / 10V
E214	23T25149W09	ELY.,	10µF / 16V	C508	08S65128F35	CP.,	100pF
C215	08T15559W26	TF,	0.12μF	E508	23T25149W12	ELY.,	47μF / 16V
		Í	,				
E215	23T25149W09	ELY.,	10μF / 16V	C509	08S65128F35	CP.,	100pF
C216	08T15559W26	TF,	0.12μF	C510	08S65128F35	CP.,	100pF
E216	23T25149W09	ELY.,	10µF / 16V	C511	08S65128F35	CP.,	100pF
C217	08T55401W17	CP.,	2200pF	E511	23S61523F27	ELY.,	0.33µF / 50V
E217	23T25149W04	ELY.,	0.47µF / 50V	C512	08T15399W03	CP.,	0.047µF
-21/	23123143000	· · ·,		1			Ť
C218	08T55401W17	CP.,	2200pF	C513	08T15399W01	CP.,	0.022μF
E218	23T25149W04	ELY	0.47µF / 50V	C514	08T15807W05	CP.,	0.1µF
E219	23T25149W09	ELY.,	10µF / 16V	C515	08T15807W05	CP.,	0.1µF
1	1	ELY.,	1µF / 50V	C516	08S65128F35	CP.,	100pF
E220	23T25149W05	, ,	10μF / 16V	C517	08S65128F69	CP.,	0.01µF
E221	23T25149W09	ELY.,	ιυμε / 10 ν	317	00303120103	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	σ.σ.μ.
E222	23T25149W09	ELY.,	10µF / 16V	C518	08S65128F69	CP.,	0.01µF
	1	ELY.,	1µF / 50V	C519	08S82122F21	CP.,	22pF
E223	23T25149W05	1 ′	'	C520	08582122F20	CP.,	20pF
E224	23T25149W05	ELY.,	1µF / 50V	C520	08565128F69	CP.,	0.01µF
E225	23T25149W02	ELY.,	0.22µF / 50V		1	CP.,	0.01µF
E226	23T25149W02	ELY.,	0.22μF / 50V	C523	08S65128F69	CF.,	0.01με
	2272744014/02	LIV	0.33µF / 50V	C524	08\$65128F35	CP.,	100pF
E227	23T25149W03	ELY.,		C529	08565128F35	CP.,	100pF
E228	23T25149W03	ELY.,	0.33μF / 50V				•
C301	08S82122F13	CP.,	10pF	C532	08S65128F69	CP.,	0.01µF
E301	23T25149W05	ELY.,	1μF / 50V	C538	08S65128F35	CP.,	100pF
C302	08582122F13	CP.,	10pF	C539	08S65128F43	CP.,	220pF
<b>l</b>		1	4	6540	00000000	CP.,	0.01E
E302	23T25149W05	ELY.,	1μF / 50V	C540	08S65128F69		0.01µF
C303	08582122F13	CP.,	10pF	C541	08S65128F35	CP.,	100pF
E303	23T25149W05	ELY.,	1μF / 50V	C542	08S65128F35	CP.,	100pF
C304	08582122F13	CP.,	10pF	C544	08S65128F35	CP.,	100pF
E304	23T25149W05	ELY.,	1µF / 50V	C545	08S65128F69	CP.,	0.01µF
I	İ		40 0 1 1 1 1 1 1	<i></i>	000000000	l cn	100-F
E305	23T25149W09	ELY.,	10μF / 16V	C547	08S65128F35	CP.,	100pF
E306	23T25149W09	ELY.,	10μF / 16V	C549	08T15399W02	CP.,	0.033µF
E307	23T25149W09	ELY.,	10μF / 16V	C550	08\$65128F63	CP.,	3300µF
E308	23T25149W09	ELY.,	10μF / 16V	C553	08\$65128F35	CP.,	100pF
E309	23T25149W05	ELY.,	1µF / 50V	C554	08S65128F35	CP.,	100pF
E310	23T25149W05	ELY.,	1μF / 50V	C555	08S82122F19	CP.,	18pF
E316	23T25149W05	ELY.,	1μF / 50V	C556	08582122F19	CP.,	18pF
E317	23T25149W09	ELY.,	10μF / 16V	C701	08S65128F61	CP.,	2200pF
E318	23T25149W09	1	10μF / 16V	E701	23S61523F29	ELY.,	1µF / 50V
E319	23T25149W09	1 '	10μF / 16V	C702	08S65128F69	CP.,	0.01μF
''			•	li			
E320	23T25149W09	ELY.,	10μF / 16V	E702	23561523F30	ELY.,	2.2μF / 50V
C501	08582122F21	CP.,	22pF	C703	08T15399W02	CP.,	0.033µF
		1 "					·
		<del></del>		· ———			

Prop   23561323F12   ELY,   10µF / 16V   R027   05564995F77   10K ohm   R027   05564995F77   10K ohm   R027   R028   R0	Symbol No.	Part No.	Description	Symbol No.	Part No.		Description
C704         08565128F69         CP.,         0.01µF         R027         08564995F73         1120k         ohm           E704         2851523F12         ELY.,         10µF / 16V         R030         08564995F73         11k         ohm           E705         28561523F12         ELY.,         10µF / 16V         R030         08564995F93         47k         ohm           C707         08565128F61         ELY.,         10µF / 16V         R036         08564995F77         10k         ohm           C707         08565128F61         CP.,         2200pF         R037         08564995F77         10k         ohm           C708         08565128F61         ELY.,         10µF / 16V         R041         08564995F77         10k         ohm           E708         23561523F12         ELY.,         10µF / 16V         R044         08564995F70         10k         ohm           E710         23561523F12         ELY.,         10µF / 16V         R043         08564995F70         10k         ohm           E711         23561523F12         ELY.,         10µF / 16V         R044         08564995F70         10k         ohm           E711         23561523F12         ELY.,         10µF / 50V         R04	<u> </u>	2264522542	EIV 10E / 16.V		06564005577	101/	ohm .
E704   23561523F12   ELY,   10µF / 16V   R028   05664995F73   10K ohm   10F / 16V   R030   05664995F93   47K ohm   10F / 16V   R030   05664995F77   10K ohm   10F / 16V   R030   05664995F78   10K							
C706			· ·				
E705 23561523F12 ELY, 10µF / 16V R032 06564995F93 47K ohm  C706 08565128F35 CP, 100pF E707 23561523F12 ELY, 2200pF E707 23561523F12 ELY, 10µF / 16V R031 05564995F77 10K ohm C708 08715399W01 CP, 0.022µF E708 23561523F12 ELY, 10µF / 16V R041 05564995F77 10K ohm C708 08715399W01 CP, 0.022µF E708 23561523F12 ELY, 10µF / 16V R041 05564995F77 10K ohm C709 08715399W01 CP, 0.01µF / 16V R044 05564995F77 10K ohm C804 0856128F89 CP, 0.01µF / 16V R045 05564995F77 10K ohm C801 0856128F89 CP, 0.01µF / 16V R046 05564995F77 10K ohm C801 0856128F89 CP, 0.01µF / 16V R046 05564995F77 10K ohm C802 23561523F12 ELY, 10µF / 16V R046 05564995F77 10K ohm C801 0856128F89 CP, 0.01µF / 16V R046 05564995F77 10K ohm C802 08715399W01 CP, 0.047µF R056 05564995F77 10K ohm C803 0856128F89 CP, 0.01µF / 16V R046 05564995F77 10K ohm C804 0856128F89 CP, 0.047µF R056 05564995F77 10K ohm C804 0856128F89 CP, 0.047µF R056 05564995F77 10K ohm C804 0856128F89 CP, 0.01µF / 16V R046 05564995F77 10K ohm C804 0856128F89 CP, 0.01µF / 16V R046 05564995F77 10K ohm C805 0815395W01 CP, 0.022µF R202 05564995F87 220 ohm C806 0815395W01 CP, 0.022µF R203 05564995F87 220 ohm C806 0815399W01 CP, 0.022µF R203 05564995F87 560 ohm C807 23725149W05 ELY, 10µF / 16V R203 05564995F81 15K ohm C809 23561523F12 ELY, 10µF / 16V R203 05564995F81 15K ohm C809 23561523F12 ELY, 10µF / 16V R203 05564995F81 15K ohm C809 23561523F12 ELY, 10µF / 16V R203 05564995F81 15K ohm C809 23561523F12 ELY, 10µF / 16V R203 05564995F81 15K ohm C809 23561523F12 ELY, 10µF / 16V R212 05564995F93 11K ohm C809 23561523F12 ELY, 10µF / 16V R212 05564995F85 22K ohm C809 05564995F03 05564995F03 11K ohm C809 23561523F12 ELY, 10µF / 16V R212 05564995F73 10K ohm C809 23561523F12 ELY, 10µF / 16V R212 05564995F73 10K ohm C809 23561523F12 ELY, 10µF / 16V R212 05564995F73 10K ohm C809 23561523F12 ELY, 10µF / 16V R212 05564995F85 11K ohm C809 23561523F12 ELY, 10µF / 16V R212 05564995F73 10K ohm C809 23561523F12 ELY, 10µF / 16V R212 05564995F73 10K ohm C809 23561523F12 ELY, 10µF / 16V R212 05564995F73 10K ohm C809 23				1			
C706 08565128F25 CP., 100pF R033 06564995F93 47K ohm 05665695F128F61 CP., 2200pF R037 06564995F77 10K ohm 0566595128F61 CP., 2200pF R037 06564995F77 10K ohm 0566595F77 10K ohm 0566695F77 10K ohm 0566695							=
EPOIG   23561523F12   ELY.,   10µF / 16V   R036   06564995F77   10K   0hm   05664995F77   10K   0hm   05664995F69   4.7K   0hm   056664995F77   10K   0hm   056664995F69   24K	E/U5	23301323712	ΕΕΤ., ΙΟΡΕ/ 16V	NU32	00304993193	4/1	Onm
EPOIG   23561523F12   ELY.,   10µF / 16V   R036   06564995F77   10K   0hm   05664995F77   10K   0hm   05664995F69   4.7K   0hm   056664995F77   10K   0hm   056664995F69   24K	C706	08S65128F35	CP., 100pF	R033	06S64995F93	47K	ohm
C707					1		
EPOP   23561523912					1		
C708					1		
E708 23561523F12 ELY, 10µF / 16V R043 06564996F04 120K ohm 070 23561523F12 ELY, 10µF / 16V R044 06564995F77 10K ohm 070 23561523F12 ELY, 10µF / 16V R045 06564995F77 10K ohm 070 0556128F69 CP., 0.01µF R047 06564995F69 4.7K ohm 070 0556128F69 CP., 0.01µF R047 06564995F77 10K ohm 070 0556128F69 CP., 0.047µF R066 05564995F77 10K ohm 070 0556128F69 CP., 0.01µF R010 05664995F77 10K ohm 070 0556128F69 CP., 0.01µF R010 05664995F77 10K ohm 070 0556128F69 CP., 0.01µF R010 05664995F77 10K ohm 070 0566128F69 CP., 0.01µF R010 05664995F86 24K ohm 070 0566128F69 CP., 0.022µF R010 05664995F86 24K ohm 070 0566128F69 CP., 0.022µF R010 05664995F87 70K ohm 070 0566128F199W01 CP., 0.022µF R010 05664995F71 10K ohm 070 05661995F71 1					1	,	
E709	""	001133331101	5.522	''' '-		1010	J
E710   23561523F24   ELY.,	E708	23S61523F12	ELY., 10μF / 16V	R043	06S64996F04	120K	ohm
E711   23561523F12   ELY,   10µF / 16V   R047   06564995F69   4.7K   0hm	E709	23S61523F12	ELY., 10µF / 16V	R044	06S64995F77	10K	ohm
C801   08565128F69   CP.,   0.01μF   R047   06564995F69   4.7K ohm	E710	23S61523F34	ELY., 100µF / 10V	R045	06S64995F77	10K	ohm
C801   08565128F69   CP.,   0.01μF   R047   06564995F69   4.7K ohm	E711	23S61523F12	ELY., 10µF / 16V	R046	06S64995F69	4.7K	ohm
C802         08T15399W03         CP., 0.047μF         0.047μF         R806         06564995F77         10K ohm           C803         08565128F69         CP., 0.01μF         R202         06564995F37         220 ohm           C804         08565128F57         CP., 1000pF / 16V         R203         06564995F86         24K ohm           C804         08565128F57         CP., 470μF / 16V         R203         06564995F86         24K ohm           C805         08T15399W01         CP., 0.022μF         R206         06564995F87         560 ohm           C806         08T15399W01         CP., 0.022μF         R206         06564995F87         560 ohm           C806         08T15399W01         CP., 0.022μF         R206         06564995F87         1K ohm           C807         08T15399W01         CP., 0.022μF         R208         06564995F87         27K ohm           C807         08T15399W01         CP., 0.022μF         R208         06564995F87         15K ohm           C807         23T25149W05         ELY., 10μF / 50V         R210         06564995F87         15K ohm           E809         23561523F12         ELY., 10μF / 16V         R211         06564995F79         12K ohm           E811         23T94181F40	•	08S65128F69	, .	R047	06S64995F69	4.7K	ohm
C802         08T15399W03         CP., 0.047μF         0.047μF         R806         06564995F77         10K ohm           C803         08565128F69         CP., 0.01μF         R202         06564995F37         220 ohm           C804         08565128F57         CP., 1000pF / 16V         R203         06564995F86         24K ohm           C804         08565128F57         CP., 470μF / 16V         R203         06564995F86         24K ohm           C805         08T15399W01         CP., 0.022μF         R206         06564995F87         560 ohm           C806         08T15399W01         CP., 0.022μF         R206         06564995F87         560 ohm           C806         08T15399W01         CP., 0.022μF         R206         06564995F87         1K ohm           C807         08T15399W01         CP., 0.022μF         R208         06564995F87         27K ohm           C807         08T15399W01         CP., 0.022μF         R208         06564995F87         15K ohm           C807         23T25149W05         ELY., 10μF / 50V         R210         06564995F87         15K ohm           E809         23561523F12         ELY., 10μF / 16V         R211         06564995F79         12K ohm           E811         23T94181F40							
R202   23561523F12   ELY.,			, , , , , , , , , , , , , , , , , , ,				
C803         08S65128F69         CP.         0.01μF         R202         06564995F37         220 ohm           C804         08S65128F57         CP.         1000pF         R204         06564995F86         24K ohm           C805         08T15399W01         CP.         0.022μF         R206         06564995F84         560 ohm           C805         08T15399W01         CP.         0.022μF         R206         06564995F37         560 ohm           C806         08T15399W01         CP.         0.022μF         R206         06564995F37         1K ohm           C807         08T15399W01         CP.         0.022μF         R208         06564995F81         15K ohm           C807         08T15399W01         CP.         0.022μF         R209         06564995F81         15K ohm           C807         08T15399W01         CP.         0.022μF         R210         06564995F81         15K ohm           C807         08T15399W01         CP.         0.022μF         R210         06564995F81         15K ohm           E809         23761523F12         ELY.         10pF/16V         R211         06564995F77         10K ohm           E811         23794181F40         ELY.         20pF/10V         R21		08T15399W03					
E803   23T35505W02   ELY.,   2200µF / 16V   R203   06564995F86   24K ohm	E802	23S61523F12	ELY., 10μF / 16V	R201	06S64995F37	220	ohm
C804   08565128F57   CP.,   1000pF   E804   23T00149L28   ELY.,   470µF/16V   R205   06564995F47   560 ohm   C805   08T15399W01   CP.,   0.022µF   R206   06564995F3   1K ohm   C806   08T15399W01   CP.,   0.022µF   R208   06564995F3   1K ohm   C806   08T15399W01   CP.,   0.022µF   R208   06564995F3   1K ohm   C807   08T15399W01   CP.,   0.022µF   R210   06564995F87   27K ohm   C807   08T15399W01   CP.,   0.022µF   R210   06564995F81   15K ohm   C807   08T15399W01   CP.,   0.022µF   R210   06564995F77   10K ohm   C807   23561523F32   ELY.,   10µF/16V   R211   06564995F77   10K ohm   C809   23561523F32   ELY.,   10µF/16V   R211   06564995F77   10K ohm   C812   23561523F34   ELY.,   10µF/16V   R213   06564995F77   12K ohm   C812   23561523F34   ELY.,   10µF/16V   R213   06564995F79   12K ohm   C813   23T25149W05   ELY.,   1µF/50V   R216   06564995F75   8.2K ohm   C814   23T25149W05   ELY.,   1µF/50V   R216   06564995F75   8.2K ohm   R218   23T25149W05   ELY.,   1µF/50V   R216   06564995F85   22K ohm   R220   06564995F63   1K ohm   R220   06564995F29   100 ohm   R230   06564996F26   11M ohm   R021   06564995F3   1K ohm   R021   06564995F3   1K ohm   R021   06564995F3   1K ohm   R021   06564995F3   1K ohm   R021   06564995F3   1K ohm   R021   06564995F3   1K ohm   R021   06564995F3   100 ohm   R021   06564995F26   11M ohm   R021   06564995F3   1K ohm   R021   06564995F3   1K ohm   R021   06564995F3   1K ohm   R021   06564995F3   1K ohm   R021   06564995F3   1K ohm   R021   06564995F3   1K ohm   R021   06564995F3   1K ohm   R021   06564995F3   1K ohm   R021   06564995F3   1K ohm   R021   06564995F3   1K ohm   R021   06564995F3   1K ohm   R021   06564995F3   1K ohm   R021   06564995F3   1K ohm   R021   06564995F3   1K ohm   R021   06564995F3   1K ohm   R021   06564995F3   1M ohm   R021   06564995F3   1K ohm   R021   06564995F3   1M ohm   R021   06564995F3   1M ohm	C803	08S65128F69		R202	06S64995F37	220	ohm
Resistors   CAII   resistors are chip 1/10W±5%   Resistors   CAII   resistors are chip 1/10W±5%   Resistors   CAII   resistors are chip 1/10W±5%   Resistors   CAII   resistors are chip 1/10W±5%   Resistors   CAII   resistors are chip 1/10W±5%   Resistors   CAII   resistors are chip 1/10W±5%   Resistors   CAII   resistors are chip 1/10W±5%   Resistors   CAII   Resistors	E803	23T35505W02	ELY., 2200µF / 16V	R203	06S64995F86	24K	ohm
Resistors   CAII   resistors are chip 1/10W±5%   Resistors   CAII   resistors are chip 1/10W±5%   Resistors   CAII   resistors are chip 1/10W±5%   Resistors   CAII   resistors are chip 1/10W±5%   Resistors   CAII   resistors are chip 1/10W±5%   Resistors   CAII   resistors are chip 1/10W±5%   Resistors   CAII   resistors are chip 1/10W±5%   Resistors   CAII   Resistors	<b></b>						•
CR05   O8T15399W01   CP.,				•	1		
E805   23T25149W15   ELY.,   4.7μF / 35V   R208   06564995F3   1K ohm		l .		2			
Resistors   CAII   resistors are chip 1/10W±5%   Resistors   CAII   resistors are chip 1/10W±5%   Resistors   CAII   resistors are chip 1/10W±5%   Resistors   CAII   resistors are chip 1/10W±5%   Resistors   CAII   resistors are chip 1/10W±5%   Resistors   CAII   Resistors							
Resistors   All   resistors are chip 1/10W±5%   Resistors   (All   Resis		23T25149W15			1		
C807   08T15399W01   CP.,   0.022μF   R210   06564995F81   15K ohm   C807   23T25149W05   ELY.,   1μF / 50V   R211   06564995F77   10K ohm   C810   23561523F12   ELY.,   10μF / 10V   R213   06564995F77   10K ohm   C811   23T94181F40   ELY.,   220μF / 10V   R213   06564995F75   8.2K ohm   C812   23561523F12   ELY.,   10μF / 16V   R215   06564995F75   8.2K ohm   C812   23T25149W05   ELY.,   1μF / 50V   R216   06564995F75   8.2K ohm   C814   23T25149W05   ELY.,   1μF / 50V   R216   06564995F75   8.2K ohm   C818   23T25149W05   ELY.,   1μF / 50V   R216   06564995F85   22K ohm   C818   06564995F85   22K ohm   C818   06564995F85   22K ohm   C818   06564995F85   22K ohm   C818	C806	08T15399W01	CP., 0.022μF	R208	06S64995F87	27K	ohm
C807   08T15399W01   CP.,   0.022μF   R210   06564995F81   15K ohm   C807   23T25149W05   ELY.,   1μF / 50V   R211   06564995F77   10K ohm   C810   23561523F12   ELY.,   10μF / 10V   R213   06564995F77   10K ohm   C811   23T94181F40   ELY.,   220μF / 10V   R213   06564995F75   8.2K ohm   C812   23561523F12   ELY.,   10μF / 16V   R215   06564995F75   8.2K ohm   C812   23T25149W05   ELY.,   1μF / 50V   R216   06564995F75   8.2K ohm   C814   23T25149W05   ELY.,   1μF / 50V   R216   06564995F75   8.2K ohm   C818   23T25149W05   ELY.,   1μF / 50V   R216   06564995F85   22K ohm   C818   06564995F85   22K ohm   C818   06564995F85   22K ohm   C818   06564995F85   22K ohm   C818	EONE	22725150\4/21	ELV 1000E / 50V	P200	06564005581	151	ohm
E807   23T25149W05   ELY.,   1μF / 50V   R212   06564995F77   10K ohm   1							
E809   23561523F12   ELY.,   10μF / 16V   R213   06564995F77   10K ohm	1						
E810 23561523F34 ELY., 100µF / 10V R213 06564995F79 12K ohm  E811 23T94181F40 ELY., 220µF / 10V R215 06564995F75 8.2K ohm  E812 23561523F12 ELY., 10µF / 16V R215 06564995F75 8.2K ohm  E813 23T25149W05 ELY., 1µF / 50V R216 06564995F75 8.2K ohm  E814 23T25149W05 ELY., 1µF / 50V R217 06564995F75 8.2K ohm  R218 06564995F85 22K ohm  R219 06564995F85 22K ohm  R220 06564995F85 22K ohm  R221 06564995F85 22K ohm  R221 06564995F85 22K ohm  R222 06564995F85 22K ohm  R222 06564995F85 22K ohm  R223 06564995F85 22K ohm  R224 06564995F85 22K ohm  R227 06564995F85 22K ohm  R228 06564995F85 22K ohm  R229 06564995F85 22K ohm  R227 06564995F85 22K ohm  R227 06564995F85 22K ohm  R228 06564995F85 22K ohm  R229 06564995F85 22K ohm  R227 06564995F85 22K ohm  R228 06564995F63 2.7K ohm  R018 06564996F02 100K ohm  R018 06564996F02 680K ohm  R019 06564995F29 680K ohm  R020 06564995F29 100 ohm  R021 06564995F3 1K ohm  R021 06564995F3 1K ohm	\$	1			1		
E811 23T94181F40 ELY., 220μF / 10V ES812 23T25149W05 ELY., 1μF / 50V ELY., 1μF / 50V ELY., 1μF / 50V R216 06564995F75 8.2K ohm 06564995F85 22K oh	2	1			1		
Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)   R016   06564995F69   4.7K ohm (R018 06564995F69   4.7K ohm (R018 06564995F29   100 ohm (R019 06564995F26   100 ohm (R019 06564995F29   100 ohm (R019 06564995F26   100 ohm (R019 0656	E810	23561523F34	ΕΕΥ., ΙΟΟμΕ / ΙΟΥ	K213	06564995F/9	12K	onm
Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)   R016   06564995F69   4.7K ohm (R018 06564995F69   4.7K ohm (R018 06564995F29   100 ohm (R019 06564995F26   100 ohm (R019 06564995F29   100 ohm (R019 06564995F26   100 ohm (R019 0656	F811	23T94181F40	FLY 220uF / 10V	R214	06564995F75	8.2K	ohm
Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)   R224		i e					
Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)   R227		•					
R218 06564995F85 22K ohm  R219 06564995F85 22K ohm  R220 06564995F85 22K ohm  R221 06564995F85 22K ohm  R222 06564995F85 22K ohm  R222 06564995F85 22K ohm  R223 06564995F85 22K ohm  R224 06564995F85 22K ohm  R225 06564995F85 22K ohm  R226 06564995F85 22K ohm  R227 06564995F85 22K ohm  R228 06564995F85 22K ohm  R229 06564995F85 22K ohm  R220 06564995F85 22K ohm  R220 06564995F85 22K ohm  R220 06564995F85 22K ohm  R220 06564995F85 22K ohm  R220 06564995F85 22K ohm  R221 06564995F85 22K ohm  R222 06564995F85 22K ohm  R223 06564995F85 22K ohm  R224 06564995F85 22K ohm  R225 06564995F85 22K ohm  R226 06564995F85 22K ohm  R227 06564995F85 22K ohm  R228 06564995F85 22K ohm  R229 06564995F85 22K ohm  R220 06564995F85 22K ohm  R220 06564995F85 22K ohm  R220 06564995F85 22K ohm  R221 06564995F85 22K ohm  R222 06564995F85 22K ohm  R223 06564995F85 22K ohm  R224 06564995F85 22K ohm  R225 06564995F85 22K ohm  R226 06564995F85 22K ohm  R227 06564995F85 22K ohm  R228 06564995F85 22K ohm  R229 06564995F85 22K ohm  R220 06564995F63 22K ohm  R220 06564995F63 22K ohm  R220 06564995F85 22K ohm  R221 06564995F85 22K ohm  R222 06564995F85 22K ohm  R223 06564995F85 22K ohm  R224 06564995F85 22K ohm  R225 06564995F85 22K ohm  R226 06564995F85 22K ohm  R227 06564995F85 22K ohm  R228 06564995F85 22K ohm  R229 06564995F63 22K ohm  R220 06564995F63 2		l .			1		
Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)  R016 06564995F69  4.7K ohm R018 06564995F69  4.7K ohm R019 06564995F69  4.7K ohm R019 06564995F69  4.7K ohm R019 06564995F29  100 ohm R020 06564995F29  100 ohm R021 06564995F23  1K ohm R021 06564995F23  1K ohm R021 06564995F33  1K ohm R021 06564995F33  1K ohm R021 06564995F33  1K ohm R020 06564995F33  1K ohm R021 06564995F33	CO 14	231231434403	[ΕΕΤ., Ιμι / 300		1		
R220				1210	00304993763	221	Oiliii
R220				R219	06564995F85	22K	ohm
R221	J			1	1		
Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)  R016  06S64995F69	1		]				
Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)  R016  06S64995F69	1		]	4			
Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)  R016 06S64995F69 4.7K ohm R018 06S64996F22 680K ohm R019 06S64996F14 330K ohm R020 06S64995F29 100 ohm R021 06S64995F33 1K ohm R021 06S64996F26 1M ohm R021 06S64995F33 1K ohm R021 06S64996F26 1M ohm R021 06S64995F33 1K ohm R021 06S64996F26 1M ohm R021 06S64995F33 1K ohm R021 06S64996F26 1M ohm R021 06S64995F33 1K ohm R021 06S64996F26 1M ohm R0							
Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)  R016  06S64995F69				11223	00304333133	110	Omi
Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)  R016  06S64995F69				R224	06S64995F85	22K	ohm
Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)  R016  06S64996F02					1		
Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)         R016 06S64996F02 R017 06S64995F63       100K ohm 2.7K ohm         R017 06S64995F69 4.7K ohm       R229 06S64995F63 2.7K ohm         R018 06S64996F22 680K ohm       R230 06S64996F26 1M ohm         R019 06S64996F14 330K ohm       R231 06S64996F26 1M ohm         R020 06S64995F29 100 ohm       R232 06S64996F26 1M ohm         R021 06S64995F53 1K ohm       R233 06S64996F26 1M ohm	ļ	L			1 !		
R016         06S64996F02         100K ohm         R229         06S64995F63         2.7K ohm           R017         06S64995F69         4.7K ohm         R229         06S64995F63         2.7K ohm           R018         06S64996F22         680K ohm         R230         06S64996F26         1M ohm           R019         06S64996F14         330K ohm         R231         06S64996F26         1M ohm           R020         06S64995F29         100 ohm         R232         06S64996F26         1M ohm           R021         06S64995F53         1K ohm         R233         06S64996F26         1M ohm	Resisto	ors (All resist	tors are chip $1/10W\pm5\%$		1 !		
R017     06564995F69     4.7K ohm     R229     06564995F63     2.7K ohm       R018     06564996F22     680K ohm     R230     06564996F26     1M ohm       R019     06564996F14     330K ohm     R231     06564996F26     1M ohm       R020     06564995F29     100 ohm     R232     06564996F26     1M ohm       R021     06564995F53     1K ohm     R233     06564996F26     1M ohm		unless of	tnerwise noted.)				
R018       06564996F22       680K ohm       R230       06564996F26       1M ohm         R019       06564996F14       330K ohm       R231       06564996F26       1M ohm         R020       06564995F29       100 ohm       R232       06564996F26       1M ohm         R021       06564995F53       1K ohm       06564996F26       1M ohm			1				
R019 06S64996F14 330K ohm R231 06S64996F26 1M ohm R232 06S64996F26 1M ohm R233 06S64996F26 1M ohm R233 06S64996F26 1M ohm R233 06S64996F26 1M ohm R233 06S64996F26 1M ohm	1	i					
R020 06S64995F29 100 ohm R232 06S64996F26 1M ohm R231 06S64996F26 1M ohm R231 06S64996F26 1M ohm			1		06564996F26		
R233 06S64996F26 1M ohm R021 06S64995F53 1K ohm	R019	06S64996F14	330K ohm		06564996F26	1M	ohm
R021 06S64995F53 1K ohm	R020	06\$64995F29	100 ohm	R232	06S64996F26	1M	ohm
	1			R233	06S64996F26	1M	ohm
R023   06564995F77   10K ohm   R234   06564996F26   1M ohm		į.		1			
	R023	06S64995F77	10K ohm	R234	06S64996F26	1M	ohm
	!						

Symbol	Part No.	Description	Symbol	Part No.		Description	
No.			No.	0.555.1005500	471/		
R235	06S64996F26	1M ohm	R512	06564995F93		ohm	
R236	06S64995F93	47K ohm	R514	06S64995F85		ohm	
R237	06S64996F30	2.2M ohm	R515	06S64995F79		ohm	
R238	06S64996F30	2.2M ohm	R516	06S64995F61	2.2K		
R239	06S64996F30	2.2M ohm	R517	06S64995F93	47K	ohm	
R248	06S64996F30	2.2M ohm	R518	06S64995F93	47K	ohm	
R301	06S64995F67	3.9K ohm	R519	06S64995F93	47K	ohm	
R302	06S64995F67	3.9K ohm	R520	06S64995F93	47K	ohm	
R303	06S64995F67	3.9K ohm	R521	06S64995F93	47K	ohm	
R304	06S64995F67	3.9K ohm	R522	06S64995F93		ohm	
		4001/	0522	06564005553	11/	a.h	
R305	06564996F02	100K ohm	R523	06S64995F53		ohm	
R306	06S64996F02	100K ohm	R524	06S64996F02	100K		
R307	06S64996F02	100K ohm	R525	06S64995F93		ohm	
R308	06S64996F02	100K ohm	R526	06S64995F93		ohm	
R309	06S64995F83	18K ohm	R527	06S64995F93	47K	ohm	
R310	06564995F83	18K ohm	R528	06S64995F93		ohm	
R311	06S64995F83	18K ohm	R529	06S64995F77	10K	ohm	
R312	06S64995F83	18K ohm	R531	06S64995F85	22K	ohm	
R313	06S64995F37	220 ohm	R532	06S64995F85	22K	ohm	
R314	06S64995F37	220 ohm	R533	06S64995F77	10K	ohm	
R315	06S64995F37	220 ohm	R534	06S64995F77	10K	ohm	
R316	06S64995F37	220 ohm	R535	06S64995F77		ohm	
R310	06564995F93	47K ohm	R536	06S70072F61		ohm 1/4W	
	06564995F93	47K ohm	R537	06564995F89		ohm	
R318	-	47K Ohm	R538	06564995F53		ohm	
R319	06S64995F93	1 47K 011111	K336	00304993133	110	Onni	
R320	06564995F93	47K ohm	R539	06564995F53	1K	ohm	
R321	06S64995F29	100 ohm	R540	06S70072F19	39	ohm 1/4W	
R322	06S64995F29	100 ohm	R541	06S70072F19	39	ohm 1/4W	
R323	06S64995F29	100 ohm	R542	06S70072F19	39	ohm 1/4W	
R324	06S64995F29	100 ohm	R543	06S70072F19	39	ohm 1/4W	
R325	06S64995F77	10K ohm	R545	06S64995F53	1K	ohm	
R326	06S64995F77	10K ohm	R547	06S64995F53	1K	ohm	
R327	06S64995F77	10K ohm	R548	06S64995F53	1K	ohm	
R328	06\$64995F77	10K ohm	R549	06S64995F53	1K	ohm	
R343	06S64995F85	22K ohm	R550	06S64995F53	1K	ohm	
R344	06S64995F85	22K ohm	R551	06S64995F77	101	ohm	
R344 R345	06564995F85	22K ohm	R552	06564996F26		ohm	
R345 R346	06564995F85	22K ohm	R553	06564996F14		ohm	
R346 R347	06564995F85	22K ohm	R554	06564996F18	470K		
R348	06564995F85	22K ohm	R555	06S64995F05	t .	ohm	
R349	06S64995F85	22K ohm	R556	06S64995F75	t .	ohm	
R350	06S64995F85	22K ohm	R557	06S64995F93		ohm	
R501	06S64995F41	330 ohm	R558	06S64995F61	1	ohm	
R502	06S64995F89	33K ohm	R559	06S64995F57		ohm	
R503	06S64995F93	47K ohm	R560	06S64995F93	47K	ohm	
R504	06S64995F93	47K ohm	R561	06S64995F77	10K	ohm	
R505	06S64995F93	47K ohm	R563	06S64995F93	47K	ohm	
R506	06S64995F93	47K ohm	R564	06S64995F77	10K	ohm	
R507	06S64995F69	4.7K ohm	R565	06S64995F93		ohm	
R508	06S64995F69	4.7K ohm	R567	06S64995F69	1	ohm	
DEOC	06564005503	47K ohm	R568	06S64995F85	ערכ	ohm	
R509	06S64995F93	2.2K ohm	R569	06564995F61	I .	ohm	
R510	06S64995F61						

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
R570	06S64995F57	1.5K ohm	R819	06570072F53	1K ohm 1/4W
R571	06S64995F93	47K ohm	R820	06S70072F45	470 ohm 1/4W
R572	06S64995F77	10K ohm	R821	06S70072F45	470 ohm 1/4W
R573	06S64995F81	15K ohm	R822	06570072F53	
R574	06S64995F87	27K ohm	R823	1	1K ohm 1/4W
"3/4	00304333107	278 011111	1023	06S64995F76	9.1K ohm
R575 R576	06S64995F77	10K ohm	R824	06S70072F41	330 ohm 1/4W
	06S64995F77	10K ohm	R826	06S70072F45	470 ohm 1/4W
R577	06S64995F93	47K ohm	R827	06S64995F55	1.2K ohm
R578	06S64995F93	47K ohm	R828	06S64995F67	3.9K ohm
R701	06S64995F61	2.2K ohm	R829	06S64996F02	100K ohm
R702	06S64996F18	470K ohm	R830	06S64996F02	100K ohm
R703	06S64995F61	2.2K ohm	R831	06S64995F67	3.9K ohm
R704	06S64996F02	100K ohm	R832	06S64995F93	47K ohm
R705	06564996F14	330K ohm	R833	06S64995F65	3.3K ohm
R706	06S64995F53	1K ohm	R834	06S64995F65	3.3K ohm
R707	06S64995F29	100 ohm	R835	06S70072F61	2.2K ab 1/04/
R708	06S64996F02	100K ohm	R836	06564995F77	2.2K ohm 1/4W 10K ohm
R709	06S64995F69	4.7K ohm	R837	06570072F53	
R710	06S64995F93	47K ohm	R838		1K ohm 1/4W
R711	06564995F77	10K ohm	R839	06S70072F53 06S64995F89	1K ohm 1/4W 33K ohm
		_	1.055	00304333103	33% 01111
R712	06S64996F02	100K ohm	R840	06S70072F39	270 ohm 1/4W
R713	06S64995F53	1K ohm	R841	06S53330F77	10K ohm 1/8W
R714	06S64995F29	100 ohm	R842	06S70072F61	2.2K ohm 1/4W
R715	06S64996F02	100K ohm	R850	06S64995F77	10K ohm
R716	06S64996F02	100K ohm	VR201	18T55256W13	Variable, 10K ohm
R717	06564005567	3.0V .ab	, unaan		
R717	06564995F67	3.9K ohm	VR202	18T55256W13	Variable, 10K ohm
R719	06\$64996F18	470K ohm			
	06S64995F69	4.7K ohm	<b> </b>		
R720 R721	06S64995F77	10K ohm			
1721	06S64995F93	47K ohm			
R722	06S64996F02	100K ohm			
R723	06S64995F53	1K ohm			
R724	06S64995F29	100 ohm		*	<u> </u>
R725	06S64996F02	100K ohm	ŀ	Front	P. C. Board
R726	06S64995F89	33K ohm	lC's		
R727	06S64995F81	15K ohm	IC401	E4T4EEE3\A/20	455534420
	06S53330F93	47K ohm 1/8W		51T45552W28	
	06S64995F93	47K Ohm 1/8W		51T45623W02	
	06S70072F39	270 ohm 1/4W		51T35265W02	
	06564995F77	10K ohm		51T83905F03	LC7582W
		TOR OTHER	10405	51T55639W01	RS31
	06S70072F55	1.2K ohm 1/4W			
	06S53330F77	10K ohm 1/8W	1		İ
	06S64995F77	10K ohm	Trans	ictorc	
	06S70072F55	1.2K ohm 1/4W	Trans	121012	
R811	06S70072F03	6.8 ohm 1/4W	Q402	48T73888F12	CP., FMC2
		<u> </u>		48T94853F08	CP., DTD143TK
	06S70072F03	6.8 ohm 1/4W	Q404	48T94853F08	CP., DTD143TK
	06S70072F03	6.8 ohm 1/4W		48T94853F08	CP., DTD143TK
	06S64995F77	10K ohm	Q406	48T94853F08	CP., DTD143TK
	06S64995F77	10K ohm			· · · · · · · · · · · · · · · · · · ·
R816	06S53330F61	2.2K ohm 1/8W		48T94853F08	CP., DTD143TK
2017				48T94853F08	CP., DTD143TK
1	06S64995F77	10K ohm		48T94853F08	CP., DTD143TK
R818	06S64995F77	10K ohm	Q410	48T94853F08	CP., DTD143TK
-			<b>-</b>		

Symbol No.         Part No.         Description           Diodes           D401 D402 D403 48T81063F01 D403 48T63463F01 ZD401 ZD402         CP., MA159 CP., MA159 CP., DAP202K CP., DAP202K CP., RD5.6MB2           CD401 CP., RD5.6MB2         CP., RD5.6MB2	Symbol No. Coils L401 L402 Ther	Part No.  24T16403W19 24T16403W19 mistor  48T35484W05	Description Inductor, 2.2μΗ Inductor, 2.2μΗ
D401	L401 L402 Ther	24T16403W19 24T16403W19 mistor	
D402 48T81063F01 CP., MA159 D403 48T63463F01 CP., DAP202K ZD401 48T62934F22 CP., RD5.6MB2	L402 Ther	24T16403W19 mistor	
	l <b>-</b>		
	TH401	48T35484W05	
• 1			10K ohm
Switches	li		
\$401   40T35140W22   SKQDAB (POWER / INTLZ)	B B		
S402 40T35140W22 SKQDAB (CLOCK)	Cryst	tal	
\$403	X401	91T45433W49	8.3886MHz
S404   40T35140W22   SKQDAB (M / P, T.INFO)   S408   40T35140W22   SKQDAB (DEFEAT / TITLE)	^401	311434334443	0.300011112
\$409 40T35140W22 \$KQDAB (M.S.CD, UP / FF)			
S410 40T35140W22 SKQDAB (M.S.CD, DN / REW) S411 40T35140W22 SKQDAB (DOLBY B / C, 1 / Y)	l <del> </del>	•	
S412 40T35140W22 SKQDAB (P.S.DN / 2 / M)	Capa	acitors	
S413 40T35140W22 SKQDAB (P.S.UP/3/D)	C401	08582122F17	CP., 15pF
	E401	23T25191W07	ELY., 22μF / 6.3V
S414 40T35140W22 SKQDAB (B.SKIP / 4 / CT)	C402	08S82122F17	CP., 15pF
S415 40T35140W22 SKQDAB (R.EJECT / 5 / H)	E402	23T25191W07	ELY., 22μF / 6.3V
S416 40T35140W22 SKQDAB (PROG / 6 / M)	C403	08S65128F69	CP., 0.01μF
S417 40T35140W22 SKQDAB (MONO / REPEAT)	C404	08S65128F69	CP., 0.01μF
S418 40T35140W22 SKQDAB (PTY / SCAN)	E404	23T25191W07	ELY., 22µF/6.3V
S419 40T35140W22 SKQDAB (DX / A · ME / M.I.X.)	C405	08S65128F69	CP., 0.01µF
S419 40T35140W22 SKQDAB (DX / A · ME / M.I.X.) S420 40T35140W22 SKQDAB (EFFECT / A.P.I)	C406	08S65128F69	CP., 0.01µF
S421 40T35140W22 SKQDAB (D.DISP)	C407	08S65128F69	CP., 0.01µF
\$422 40T35140W22 SKQDAB (A.S.C.)			
S426 40T35140W22 SKQDAB (EJECT / CNTRST)	C408	08S65128F69	CP., 0.01µF
	C409	08S65128F69	CP., 0.01µF
	C410	08S65128F55	CP., 680pF
	C411	08S65128F69	CP., 0.01µF
	C412	08S65128F35	CP., 100pF
Lamps	]]		
PL401 65T55635W02 6V-70mA		İ	
PL402 65T55635W03 6V-70mA	11		
PL403 65T55635W02 6V-70mA			
PL404 65T55635W02 6V-70mA	Resist	ors (All resis	tors are chip 1/10W±5%
PL405 65T55635W03 6V-70mA	IVE313C	unless o	therwise noted.)
PL406 65T55635W03 6V-70mA	R401	06S64995F77	10K ohm
PL407 65T55635W02 6V-70mA	R402	06S64995F53	1K ohm
PL408 65T55635W02 6V-70mA	R404	06564995F53	1K ohm
PL409 65T55635W03 6V-70mA	R405	06S64995F53	1K ohm
PL410 65T55635W03 6V-70mA	R406	06S64995F53	1K ohm
PL414 65T95083F05 6.7V-85mA	R407	06S64995F53	1K ohm
PL415 65T95083F09 6.7V-85mA	R409	06S64995F83	18K ohm
PL416 65T55635W03 6V-70mA	R410	06S64995F77	10K ohm
	R411	06S64995F77	10K ohm
	R412	06S64995F77	10K ohm
	R413	06S64995F77	10K ohm
	R414	06S64995F93	47K ohm
	R415	06S64995F59	1.8K ohm
	JL		

Symbol No.	Part No.		Desc	ription	Symbol No.	Part No.		Description
R416	06564996F02	100K	ohm		Crys	tal	<u> </u>	
R417	06S70072F09	15	ohm	1/4W	Crys	La:		
R418	06570072F09	15	ohm	1/4W	X101	91T45433W43	7.2MHz	
R419	06S70072F09	15	ohm	1/4W	X102	91T45433W18		
R422	06S70072F09	15	ohm	1/4W	X103	91T65014W01	4MHz	
R423	06S70072F09	15	ohm	1/4W				
R424	06S70072F09	15		1/4W			ļ	
R425	06S70072F09	15	ohm				l	
R426	06S70072F16	30		1/4W		<u> </u>	i	
R427	06570072F15	27		1/4W	Capa	acitors		
					C101	08S65128F69	CP.,	0.01µF
R428	06S64995F93	47K	ohm		E101	23T74180F02	CP., ELY.	100µF / 6.3V
R431	06\$64995F77	10K	ohm		C102	08S65128F69	CP.,	0.01µF
R432	06S64995F77	10K	ohm		E102	23T74180F01	CP., ELY.	22µF / 6.3V
R433	06S64995F77	10K	ohm		C103	08T15807W05	CP.,	0.1μF
R434	06S64995F77	10K	ohm			1001,1000,1103	[ · · · ·	υ. τμε
1					E103	23T74180F03	CP., ELY.	10µF / 16V
R435	06S64996F02	100K	ohm		C104	08T15399W02	CP.,	0.033µF
R436	06S64996F02	100K	ohm		E104	23T74180F16	CP., ELY.	2.2μF / 50V
R437	06S64996F02	100K			C105	23T55636W11	ELY., (B.P)	2.2μF / 35V
R438	06564996F02	100K	ohm		E105	23T74180F03	CP., ELY.	10μF / 16V
R439	06S64996F02	100K			2.03	25174100105	Cr., 221.	10με/100
					C106	08T55487W01	CP.,	0.155
R440	06S64996F02	100K	ohm		E106	23T74180F03	CP., ELY.	0.15μF 10μF / 16V
R441	06S64995F93		ohm		C107	08T15399W02		
R442	06564995F53	3	ohm		E107	ŧ.	CP.,	0.033µF
R443	06564995F93	1	ohm			23T74180F13	CP., ELY.	0.68µF / 50V
R499	06564996F02	100K		i	C108	08S65128F69	CP.,	0.01µF
11433	00304330F02	100%	Onm		C109	09565139560	60	224 -
VR401	18T45332W01	10K ohm	(Salfra	+urn\	C109	08\$65128F69	CP.,	0.01µF
VII.401	101433324401	TOK OIIII	(seme	turri)		08565128F29	CP.,	56pF
1					C112	08S65128F57	CP.,	1000pF
1					C113	08582122F19	CP.,	18pF
					C114	08S82122F19	CP.,	18pF
	PLL & RD	SPC	Rο	ard	C115	08582122F19	СР.,	18pF
	TEL O NO	<del></del>	. 50	ui u	C116	08S82122F19	CP.,	18pF
IC's					C117	08582122F49	CP.,	330pF
ļ		····			C118	08S65128F53	CP.,	560pF
IC101	51T68999F13	BU4066BF			C119	08S65128F69	CP.,	0.01µF
or	51T68999F23	XRU4066BF			i			•
IC102	51T93336F01	NJM4558M			C121	08S65128F35	CP.,	100pF
IC103	51T35504W02	LC7219		ì	C122	08S65128F35	CP.,	100pF
IC104	51T55054W02	SAA6579T			C123	08S65128F35	CP.,	100pF
							. •	
IC105	51T35503W02	LC7073M						
<b> </b>					Resisto	rs (All resist	ors are ch herwise n	ip 1/10W±5%
Trans	istors			İ	R101			
Q101	48T73888F08	CP., FMG1			R101	06S64995F77	10K d	
. 1	48T62967F03	CP., DTC12				06\$64995F61	2.2K d	
	48T63420F01	CP., 2SA10		ļ	R103	06564995F53	1K c	
Q103 Q104	48T62967F03	CP., 23A10		İ	R104	06\$64995F61	2.2K c	
γ104	-010230/FU3	Cr., DICI2	.+r	ļ	R105	06S64995F29	100 c	hm
	Į				R106	06S64995F77	104 -	.hm
]					R108	06S64995F53	10K c	
<u> </u>	<u></u> 1				R109		1K c	
Diode	25			Ī	R1109	06564995F61	2.2K c	
D102	48T63462F01	CP., DAN20	12 K			06564995F53	1K o	
102	.5105-02101	a., DANZI	JE 11		R111	06\$64995F71	5.6K o	nm
						İ		
							~	

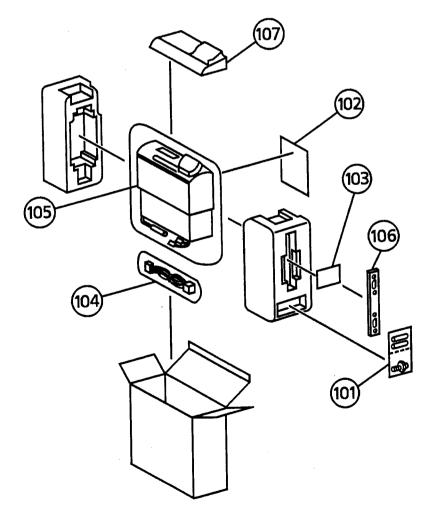
Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
Resisto	rs (All resisto unless ot	ors are chip 1/10W±5% herwise noted.)	Resisto	ors (All resist unless ot	ors are chip 1/10W±5% herwise noted.)
R112 R113 R114 R115 R116 R117 R118 R119 R120 R130	06S64995F53 06S64995F77 06S64995F93 06S64995F53 06S64995F61 06S64995F29 06S64995F77 06S64995F69 06S64995F77	1K ohm 1K ohm 1K ohm 10K ohm 47K ohm 1K ohm 2.2K ohm 100 ohm 10K ohm 4.7K ohm	R1501 R1502 R1503 R1504 R1505	06564995F77 06564995F77 06564996F10 06564996F26 06564996F18	10K ohm 10K ohm 220K ohm 1M ohm 470K ohm
				GR Audio	P. C. Board
			IC/D	Diode	
	Switch	P. C. Board	IC1201 D1201	51T15146W01 48T44813F01	IC, TA7705P MA165TA
Swite	ches				
\$405		SKQDAB (MODE LOUD)			
S423 S424		SKQDAB (TUNER / BAND / DAP) SKQDAB (TAPE, PLAY / PAUSE)	Capa	acitors	
S425	40T35140W22	SKQDAB (DISC, PLAY / PAUSE)	E1201 C1202 E1202 C1203 E1203	23T25149W09 08T35389W07 23T25149W13 08T35389W07 23T25149W13	ELY., 10μF / 16V PF., 330pF ELY., 100μF / 10V PF., 330pF ELY., 100μF / 10V
Lam	os		61204	08T35389W07	PF., 330pF
PL411		6V-70mA	C1204 E1204	23T25149W12	ELÝ., 47μF / 16V
PL412 PL413	65T55635W04 65T55635W04	6V-70mA 6V-70mA	C1205 E1205	08T35389W07 23T25149W15	PF., 330pF ELY., 4.7µF / 35V
PL413	051550554404	V-70IIA	E1206	23T25149W15	ELY., 4.7μF / 35V
			C1208 C1209	08T35122W02 08T35122W02	TF, 0.012µF TF, 0.012µF
	GR Contro	ol P.C.Board	Recist	ors (All resist	 :ors are chip 1/10W±5%
IC's /	Transistors			unless o	therwise noted.)
IC1501 IC1502	51T25621W02 51T67915F01	IC, AN6275NK IC, M51143AL	R1201 R1202	06S53330F29 06S53330F32	100 ohm 1/8W 130 ohm 1/8W
Q1501	48T84366F05	2SB1243	R1203	06S53330F32	130 ohm 1/8W
Q1502	48T94606F12	CP., DTC144TU	R1204 R1205	06S64996F14 06S64996F14	330K ohm 330K ohm
			K1203		
			R1208	06S64995F78 06S64995F78	11K ohm 11K ohm
Capa	acitors		R1209 R1210	06564995F81	15K ohm
E1501	23561524F32	ELY., 1μF / 50V	R1211	06S64995F81	15K ohm
C1502	08T35374W01 08T35374W01	CP., 0.1μF CP., 0.1μF	R1212	06S64995F65	3.3K ohm
C1503 C1504	08T35374W01	1 11. '	R1213	06S53330F65	3.3K ohm 1/8W
C1505	08S65128F15	CP., 15pF	R1214	06S53330F85	22K ohm 1/8W
			R1215	06564995F85	22K ohm
<b></b>	<u></u>	<u> </u>	-		

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
	Misc	ellaneous			
CB401 CH401 or ET001 ET301	09T45338W02 01T15513W04	17P Connector 17P Connector 17P Connector Antenna Receptacle Assy., RCA Connector			·
ET801 ET803 HD1101		Assy., Power Supply Connector Assy., DIN Connector (Ai-NET OUTPUT Connector) Head			
JK802 LCD401		Assy., DIN Socket (Ai-NET INPUT Connector)			
M1501		Assy., Main Motor		,	
PT1501 S1501 S1502		(13.2V-88mA) Sensor, Photo ON2170-R Switch, Detector (PACK IN)			
S1503	40T15382W01				
SD1501 SD1502 SD1503	01T10369W02 01T15249W01 01T10371W01	Assy., Play Solenoid			

# **Packing Assembly Parts List**

ool	Part No.	Description	Symbol No.	Part No.	Description
1-1 1-2 1-3 1-4 2 3 4 5 6	03572235F42 46A42363F01 60T55629W01 68P50390W83	Bracket, Strap Recicver			

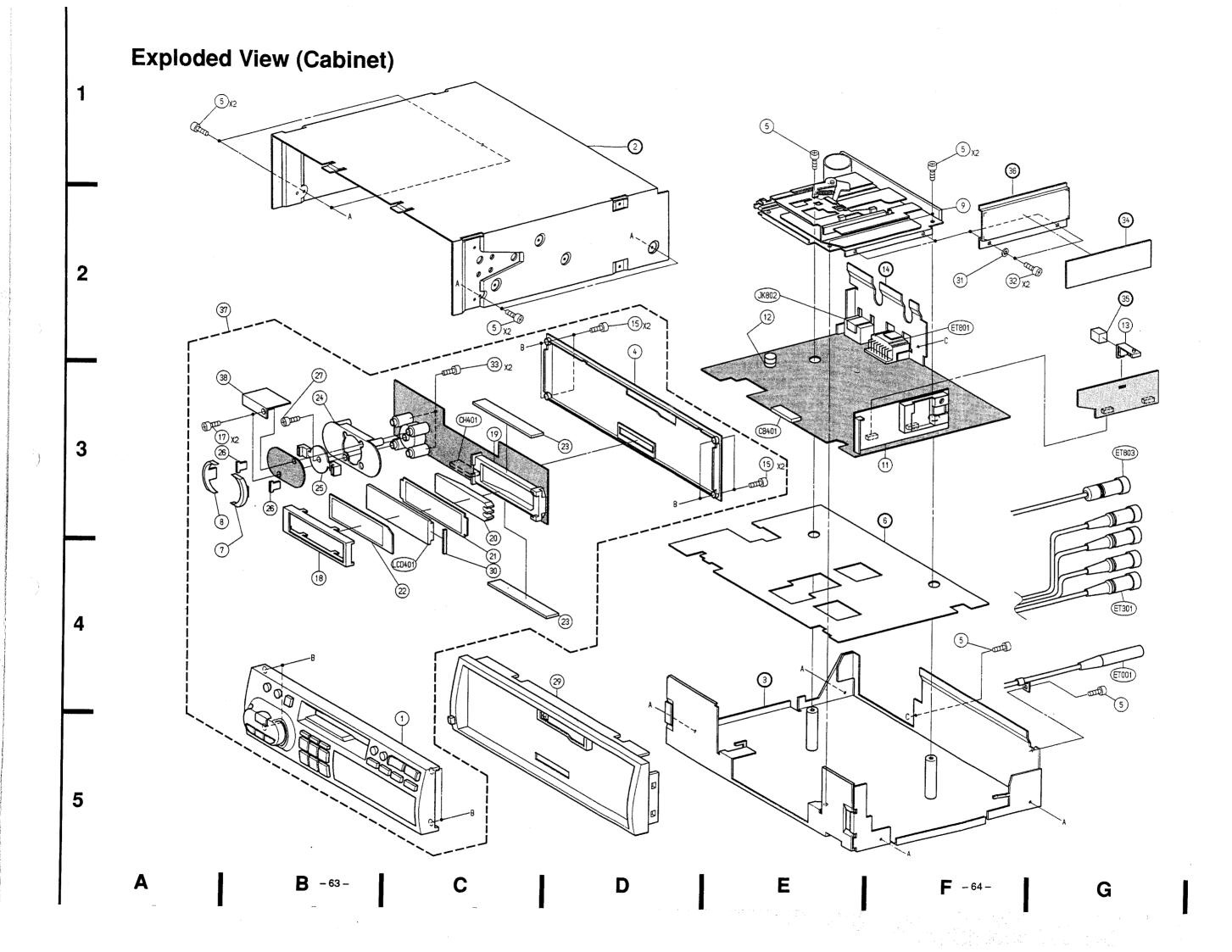
# **Packing Method View**



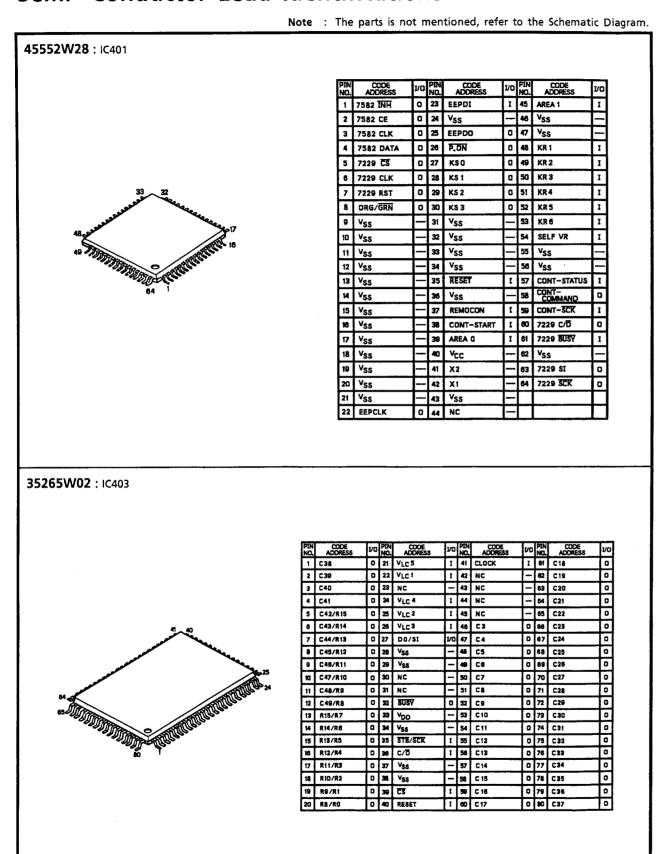
# **Cabinet Assembly Parts List**

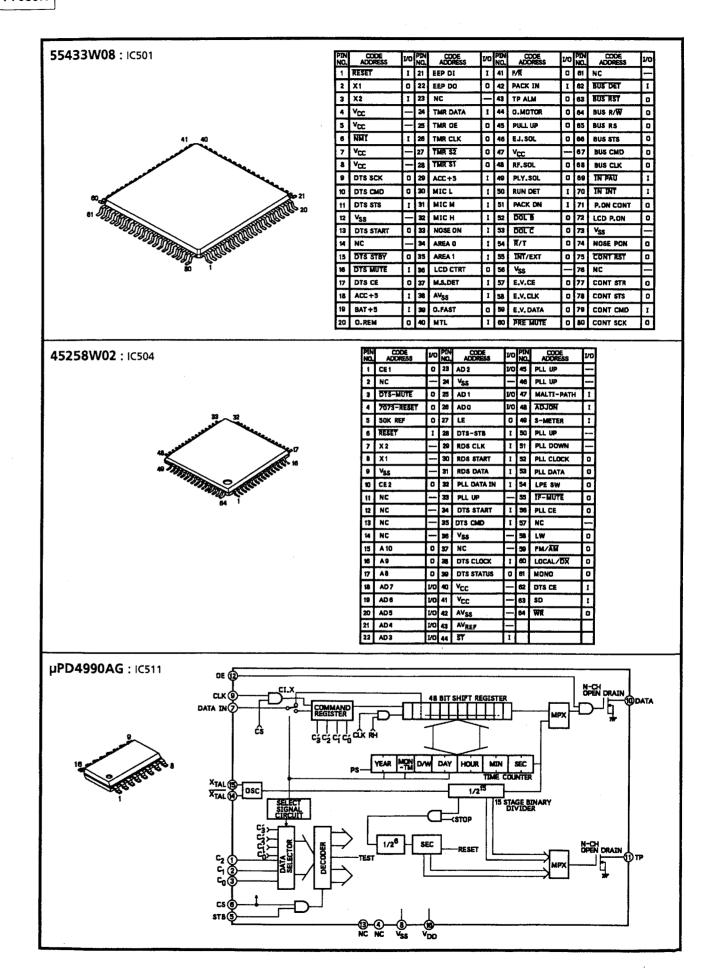
Note: No parts number on parts list are not supplied.

			MOLE	· NO pari	.s nui	liber on parts	list are not supplied.
Symbol No.	Index	Part No.	Description	Symbol No.	Index	Part No.	Description
1	5-C	13C51670W03	Assy., Nosepiece		<del>                                     </del>		<u> </u>
4	2-D		Nose, Bottom	H	1		
5	2-5	03S44205G07	Screw, Pan (M2.6×5)	H	1		
7	1	1	Knob Chistala (1)	l I	1		
	4-A	36D51684W01					1
8	3-A	36D51684W02	Knob, Shuttle (R)				
9	2-F	81D51064W01	Cassette Deck, GR75H13A				
11	3-F	77B41467W01					
12	2-E	43A42110W01		11		•	
13	2-G	43A52051W01	1 ' '	li			
15		03S68555F19	Screw, Pan (M2×12)		1		
'							
17	3-B	03S68555F02	Screw, Pan (M2×5.5)				
18		15A51669W01		H			
19	3-C	15B50304W01	Case, LCD				
20		61A50305W01			}		İ
21		14A60585W01					
22	4-C	26B60630W01	Reflector, Sheet				
23		75T35021W05		1			
24	3-B	43C51686W01		l	j		
25	3-B	36B51687W01			1		1
26	3-0	07A51685W01					
27	3-B	03S68555F07	Screw, Pan (M2×4)				
29		13C51691W01					
30		14S51152W23		ı	ļ		
31	2-F	04S40070G01	Washer, Flat (M3.3)		1		
	1 1						
32	2-F	03S44205G30	Screw, Pan (M2.6×4)				
33		03S68555F15	Screw, Pan (M2×7)				
37	2-B	01V54300W13					
38	3-A	14A61570W01	Insulator, Cover	1			
		ļ					
ļ	ļ						



### Semi - Conductor Lead Identifications

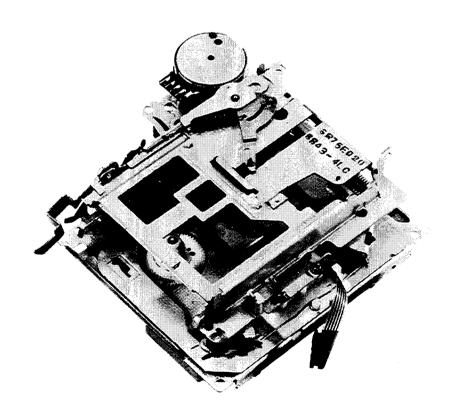






# Cassette Deck Mechanism

# ADDENDUM & REVISED(V)



GR/GR-Y SERIES

# Contents List of Usable Lock Washers 3 List of Usable Oil 3 List of Usable Jigs 3 Disassembly, Assembly and Replacement of Functional Parts 5 to 16 Exploded View (GR75E Series) (1/4) 17 to 18 Cassette Deck Assembly Parts List (GR75E Series) (1/4) 19 to 20 Exploded View (GR75L Series) (2/4) 21 to 22 Cassette Deck Assembly Parts List (GR75L Series) (2/4) 23 to 24 Exploded View (GR-Y Series) (3/4) 25 to 26 Cassette Deck Assembly Parts List (GR-Y Series) (3/4) 27 to 28 Exploded View (GR75H Series) (4/4) 29 to 30 Cassette Deck Assembly Parts List (GR75H Series) (4/4) 31 to 32

ADDENDUM & REVISED (V)

GR/GR-Y GR/GR-Y Series Series

Memo

# **List of Usable Lock Washers**

Λ		1	r			
$  \rangle$				QUA	VTITY	
	SIZE	PARTS NO.	GR75E	GR75L	GR-Y	GR75H
			Series	Series	Series	Series
1	$(M1.2 \times 3.5 \times 0.25)$	04B41345P01	4	4	4	2
2	$(M1.7 \times 3.5 \times 0.25)$	04B41345P02	1	1	1	4
3	$(M1.2 \times 2.5 \times 0.25)$	04B41345P11	8	8	8	9
4	$(M1.7 \times 3.5 \times 0.35)$	04B41345P12	2	2	2	2
5	$(M1.2 \times 3.5 \times 0.35)$	04B41345P15	2	2	2	2
6	$(M1\times2.5\times0.25)$	04B41345P17	1	1	1	2
7	$(M2.6\times5\times0.25)$	04B41345P29	1	1	1	1
8	$(M3.1 \times 8 \times 0.05)$	04B41345P30	1	1	1	1
9	$(M3.1 \times 5 \times 0.35)$	04B41345P32	2	2	2	2
10	$(M1.2 \times 2.5 \times 0.3)$	04B41345P34	1	1	1	0
11	$(M1.7 \times 2.8 \times 0.25)$	04B41345P35	1	1	1	2
12	$(M2.1\times4\times0.25)$	04B41345P37	1	1	1	0
13	$(M2.1 \times 4 \times 0.13)$	04S40075G05	2	2	2	0
14	$(M2.1\times4\times0.3)$	04S40075G58	0	0	0	1

# List of Usable Oil

- Molykote G paste
   Grease EM-30L
   Grease PG-671

# **List of Usable Jigs**

- GR bottom gear jig (Part No. 44A20788W01)
   Head height adjustment gauge AI-500 (Part No. AI-500)

- 3 -

# Disassembly, Assembly and Replacement of Functional Parts

### 1. Disassembly and Assembly of Bottom Cover

- (1) Turn the mechanism around as shown in Figure 1.
- (2) Remove M1 lock washer ① as shown in Figure 1.
- (3) Remove three screws (2) as shown in Figure 1.
- (4) Lift the bottom cover slowly from the position (a)-1, pull the hooks out of the holes in the chassis, and remove the bottom cover as shown in Figure 1.
- (5) When remounting the bottom cover, first turn the front of the mechanism up as shown in Figure 2.
- (6) Slide the slider in the direction (A)-2 as shown in Figure 2.
- (7) Push down the cassette holder in the direction (A)-3 as shown in Figure 2.
- (8) Pull the door pin in the direction (a)-4 so that the mechanism is locked in as shown in Figure 2.
- (9) Turn the mechanism around as shown in Figure 3.
- (10)Pull the automatic metal lever in the direction
  (a)-5 and the RF solenoid chip in the direction
  (a)-6 as shown in Figure 3.
- (11) Insert the hooks of the bottom cover into the chassis in the direction (A)-7, and then join the part (A)-8 of the bottom cover to the chassis slowly, making sure that the 3 points indicated with the straight lines in the Figure 3 are fitted properly.
  - If there are troubles in mounting the bottom cover, do not apply force but remove the bottom cover once again and check the positions of the individual parts. (Refer to Figure 3.)
- (12) Since the hooks marked (A)-8 will be lifted slightly as shown in Figure 4, insert the jig through the hole (A)-9, and fix it turning the jig slightly in the direction (A)-11.

  Instead of operation (12), turn the gear nose slowly with a precision screwdriver etc., taking care not to damage it.

  After 2 to 3 turns, it will click into place.
- (Refer to Figures 4 and 5.)
  (13) Fix the screws and the lock washer that have been removed.

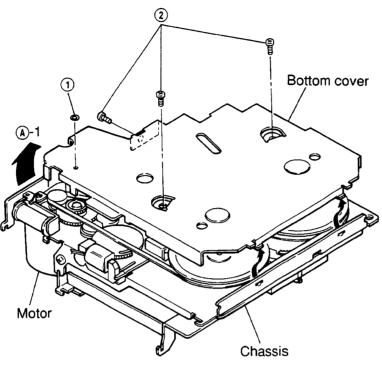


Figure 1

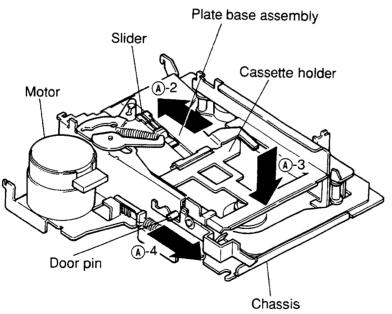


Figure 2

(14)Insert the jig into the hole (A)-9 as shown in Figure and rotate the eject solenoid counterclockwise about 20 times, pulling it in the direction (A)-10 with the finger.

Then the eject operation is completed. Instead of operation (14), the eject operation can be performed by mounting the mechanism to the product. (Refer to Figures 4 and 5.)

Note: Do not reuse the used lock washers for mounting.

When turning the mechanism, be careful not to drop the gear and the flywheel. Fasten the three screws with a fastening torque of 6 kg.cm.

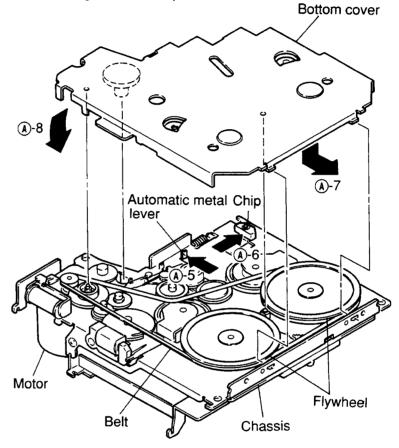


Figure 3

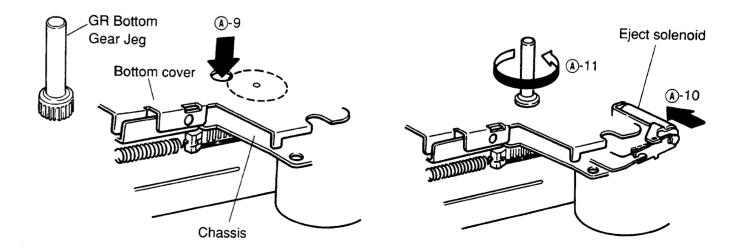


Figure 4

Figure 5

# 2. Replacement of the bottom cover mounting parts

- a. Replacement of the eject gear
  - (1) Remove M1.2 lock washer ③ as shown in Figure 6.
  - (2) Pull the eject pinion out of the eject gear and remove the eject gear as shown in Figure 6.
  - (3) Apply the molykote E paste to the section (B-1, and mount the eject gear following the removal steps in the reverse order. After replacement is finished, make sure that the gear rotates smoothly. (Refer to Figure 6.)

**Note:** Do not reuse the used lock washers for remounting.

Take care to avoid damage by piercing and tearing.

- b. Replacement of the RF solenoid
  - (1) Remove two solders (4) and remove the RF solenoid from the bottom cover by pulling it up as shown in Figure 6.
  - (2) Replace the solenoid with a new one, and remount it following the removal steps in the reverse order as shown in Figure 6.

Note: When removing solder (4), set the temperature of the soldering iron to 350° ± 10° and the soldering time to 1 – 3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged.

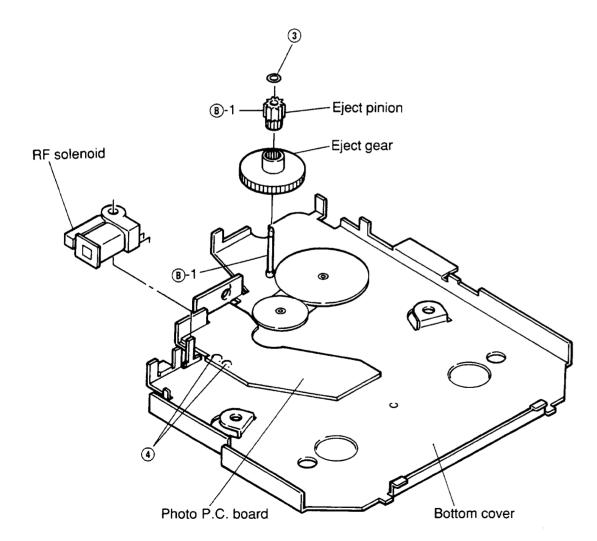


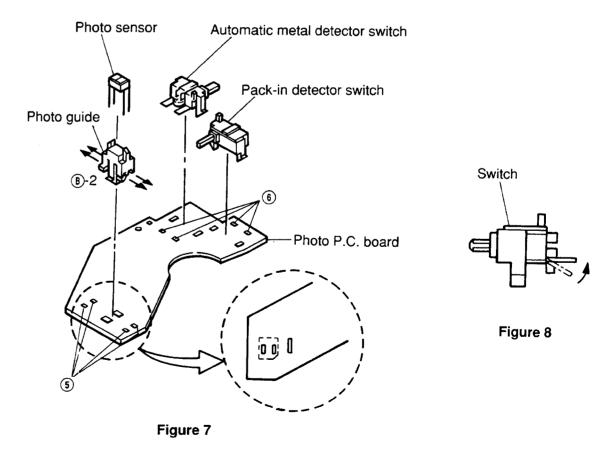
Figure 6

- c. Replacement of the photo sensor
  - (1) Remove four solders (5) as shown in Figure 7.
  - (2) Remove the photo guide together with the photo sensor from the photo P.C. board as shown in Figure 7.
  - (3) Insert the new photo sensor into the photo guide, and bend the legs of the photo sensor in the direction marked (B)-2 as shown in Figure 7.
  - (4) Insert the photo guide into the P.C. board and solder the legs so that the photo sensor is set as indicated by [[...]] in Figure 7.

Note: When using the soldering iron, set the temperature of the soldering iron to 350° ± 10° and the soldering time to 1 – 3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged. Also take care that the photo guide is properly fixed and straight.

- d. Replacement of the detector switch (Automatic metal pack-in)
  - (1) Remove 4 solders (6) with which the switch is fixed as shown in Figure 7.
  - (2) Prepare the terminals of the switch of the new solder as shown in Figure 8.
- (3) After that, insert the switch into the photo P.C. board, and solder the terminals.

Note: When using the soldering iron, refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Also take care that the switch guide is properly fixed and straight.



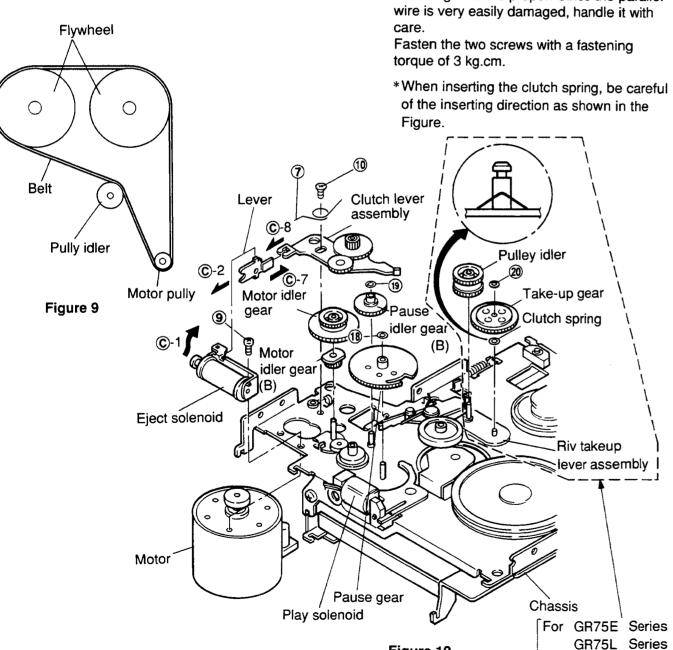
# 3. Replacement of the mounting parts on the rear of the main chassis

- a. Replacement of the belt
  - (1) After removing the bottom cover, remove the belt.
  - (2) Clean the new belt with absolute alcohol, and fix it as shown in Figure 9.

**Note:** When fixing the belt, make sure that it is not twisted or dirty. When removing the belt, do not turn up the front of the chassis.

- b. Replacement of the motor
  - (1) After removing the belt, remove spring ⑦ as shown in Figure 10.
  - (2) Remove solder (3)-1, and remove the parallel wire (5P) from the control P.C. board as shown in Figure 11.
  - (3) Remove two screws (9) and (10), and remove the motor, taking care not to damage the motor idler gear. (Refer to Figure 10.)
  - (4) Mount the new motor following the removal steps in the reverse order.

**Note:** Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Since the parallel wire is very easily damaged, handle it with care.



- c. Replacement of the flywheels
  - (1) After removing the belt, pull out the two flywheels. Take care not to loose the polyslider washer (1) located between the flywheel and the chassis. (Refer to Figure 12.)
  - (2) Fix the polyslider washer to the new flywheel and mount the flywheel to the chassis.
- d. Replacement of the play solenoid
  - (1) Remove the two solders ®-2 as shown in Figure 11.
  - (2) Remove one screw ② and remove the solenoid as shown in Figure 11.
  - (3) Mount the new solenoid following the removal steps in the reverse order.

**Note:** Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 2.3 kg.cm.

- e. Replacement of the eject solenoid
- (1) Remove two solders ®-3. Take care not to loose the tube that protects the wire. (Refer to Figure 11.)
- (2) Remove screw (9) and remove the solenoid as shown in Figure 10.
- (3) Align position ©-1 of the new solenoid with position ©-2 of the lever and fasten the screw as shown in Figure 10.
- (4) Lead the wire through the tube and solder it.

Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 3 kg.cm. As the solenoid wires are not insulated, do not let them cross each other.

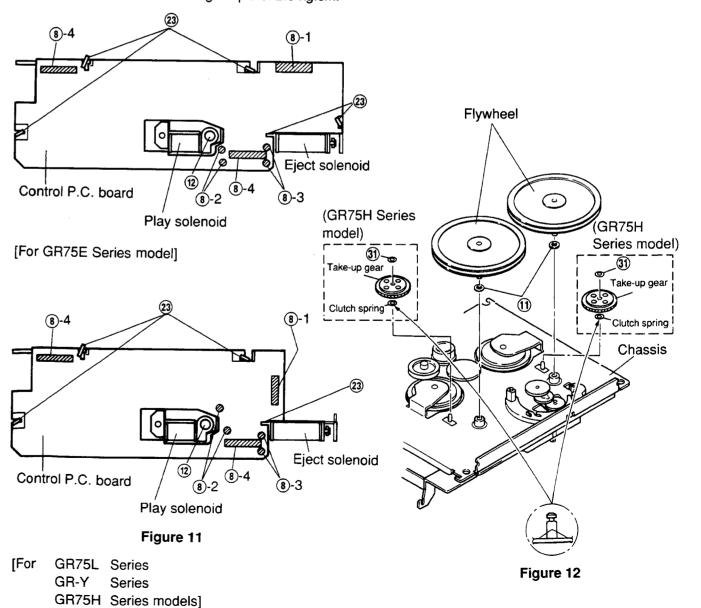


Figure 10

Series

GR-Y

models

### f. Replacement of gears

- (f-1) Replacement of the reverse idler gear
- (1) Remove M1.2 lock washer (3), pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
- (2) Remount following the removal steps in the reverse order.

### (f-2) Replacement of the sun gear

- (1) Remove M1.2 lock washer (4), pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
- (2) Mount it, following the removal steps in the reverse order.

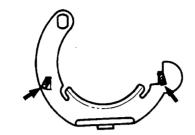
### (f-3) Replacement of the fixing gear

- (1) Adjust the two mounting claws for the fix gear on the chassis (§) and remove the section (©-3 of the gear by pulling it up in the direction of the arrow shown in Figure 13.
- (2) Insert the section ©-4 of the new gear into the chassis, and mount it following the removal steps in the reverse order as shown in Figure 13.
- (f-4) Replacement of the reverse lever assembly and planet gear
- (1) Remove both the fixing gear and the sun gear and remove the reverse lever assembly as shown in Figure 13.
- (2) Remove M1.7 lock washer (6) and remove the planet gear as shown in Figure 14.
- (3) Mount the new planet gear and reverse lever following the removal steps in the reverse order.

### Notes on f-1 through f-4:

After mounting all parts, check if the reverse lever moves in the directions marked ©-5 when the reverse gear is turned clockwise and counterclockwise.

\* After mounting the fixing gear, bend the claws (s) into the form of as shown in the Figure.



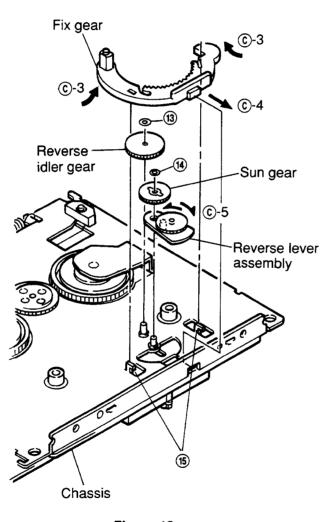


Figure 13

- (f-5) Replacement of the clutch lever assembly and eject idler gear
  - After removing the motor, remove the motor idler gear and the motor idler gear (B) and remove the clutch lever assembly as shown in Figure 10.
  - (2) Remove M1.2 lock washer ① and remove the eject idler gear as shown in Figure 15.
- (3) Mount the new gears and clutch lever following the removal steps in the reverse order.

Note: When mounting the gears to the lever, apply grease (PG-671) to the position ©-6 as shown in Figure 15. Align the position ©-7 with the position ©-8 and mount the clutch lever as shown in Figures 10 and 15.

### (f-6) Replacement of the pause gear

- (1) Remove M1.2 lock washer (18) and remove the pause gear pulling it up from the stud of the chassis as shown in Figure 10.
- (2) Mount the new gear following the removal steps in the reverse order.

- (f-7) Replacement of the pause idler gear (B)
  - (1) After removing the motor and the motor idler gear, remove M1.2 lock washer (9) and remove the gear by pulling it up from the stud of the chassis as shown in Figure 10.
  - (2) Mount the new gear by following the removal steps in the reverse order.

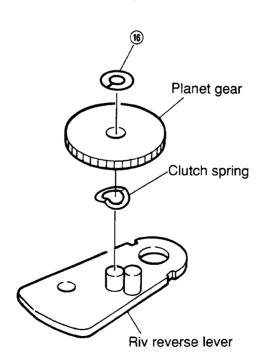
### (f-8) Replacement of the take-up gear

- (1) After removing the belt and the pulley idler gear, remove M1.2 lock washer ② by pulling it up from the stud of the riv take-up lever assembly as shown in Figure 10.

  After removing the Flywheel, remove M1.2 lock washer ③ and remove the gear by pulling it up from the stud of the chassis as shown in figure 12. [For GR75H Series model]
- (2) Remount the take-up gear following the removal steps in the reverse order.

### Notes on f:

Do not reus e the used washers. Take care to avoid damage by piercing and tearing.



[Disassembly Reverse Lever Assembly]

Figure 14

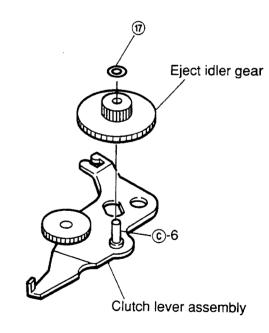


Figure 15

# 4. Replacement of the parts mounted on the front of the main chassis

- a. Replacement of the audio P.C. board
  - (1) Remove two solders ② and remove the parallel wire (7P) and the head P.C. board as shown in Figure 16.
  - (2) Adjust the two claws ② to the rectangular holes on the P.C. board and remove the P.C. board as shown in Figure 16.
  - (3) After replacement, mount the new P.C. board following the removal steps in the reverse order.

**Note:** The head P.C. board and the parallel wire are easily damaged. Handle them with care. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head P.C. board.

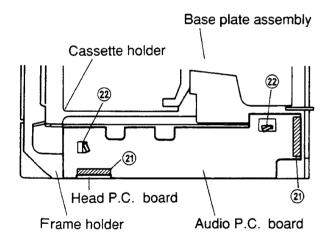


Figure 16

- b. Replacement of the control P.C. board
  - (1) Remove seven solders (8) and remove the three parallel wires and the wires of the eject solenoid and of the play solenoid as shown in Figure 11.
  - (2) Remove five claws ② and remove the P.C. board as shown in Figure 11. [For GR75E Series model] Remove four claws ② and remove the P.C. board as shown in Figure 11. [For GR75L Series, GR-Y Series, GR75H Series models]
  - (3) After replacing the old P.C. board with a new one, mount it following the removal steps in the reverse order.

**Note:** As mentioned in Item 4-a, handle the parallel wires carefully, and be sure that the temperature of the soldering iron and the soldering time are proper. As the wires of the eject solenoid are not insulated, do not let them cross each other.

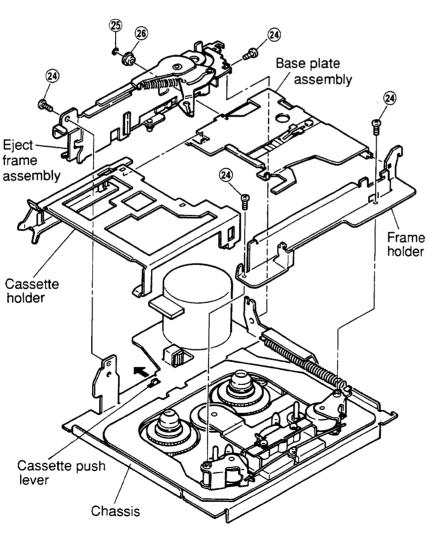


Figure 17

- c. Disassembly and assembly of the cassette holder
  - (1) Remove four screws ② and remove the eject frame assembly and the frame holder as shown in Figure 17.
  - (2) Remove M1.2 lock washer ② and plate base roller ③ and remove the cassette holder and the base plate assembly as shown in Figure 17.
  - (3) Remount them following the removal steps in the reverse order.

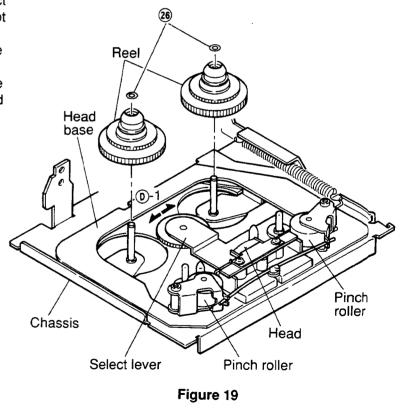
Notes: 1. When mounting the cassette holder and the base plate, insert the slider shaft into the eject arm and fix them turning the slider shaft in the direction indicated by the arrow in the figure. Make sure that the cassette holder and the base plate are in the cassette-in mode during this operation. (Refer to Figure 18).

- When mounting the eject frame assembly, push the cassette push lever in the direction indicated by the arrow in the Figure 17.
- When mounting the base plate
   assembly and the eject frame
   assembly, or when mounting the eject
   frame assembly to the chassis, do not
   apply excessive force to avoid
   deformations of the eject arm and the
   frame.

 Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

- d. Replacement of the reels
- (1) Remove M1.7 two lock washers ② (Refer to figure 19).
- (2) Move the select lever in the direction marked ①-1 in the Figure and remove the reel by gripping the reel gear as shown in Figure 19.
- (3) After replacement, mount the new reels following the removal steps in the reverse order.
- (4) After mounting, check the tape speed and the wow and flutter with test tape MTT-111.

**Note:** Since the reel is easily loosened if the cap is gripped, always handle it gripping the gear. Do not reuse the used washers. Take care to avoid damage by piercing and tearing.



Eject arm

Base plate

Slider

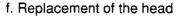
Figure 18

-CHIIIIIIIIII

- e. Replacement of the pinch rollers
- (1) Remove pinch roller spring ② as shown in Figure 20.
- (2) Remove M3.1 two lock washers (2) and remove the pinch roller as shown in Figure 20.
- (3) Mount the pinch rollers following the removal steps in the reverse order.

  Apply insulation coating to the position ①-2 of the pinch roller as shown in Figure 20.

Note: Make sure that the pinch rollers are thoroughly fixed and that they are not deformed. Do not reuse used lock washers. Take care to avoid damage by piercing and tearing.



- (1) After removing the pinch roller spring, remove two screws ② as shown in Figure 21.
- (2) Remove solder ⓐ and remove the head from the head P.C. board as shown in Figure 22.
- (3) After replacement, mount the new head following the removal steps in the reverse order.
- Notes: 1. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head P.C. board. Make sure that the head P.C. board is not lifted.
  - Fasten the two screws with a fastening torque of 2.3 kg.cm. Note that the tension of the head spring can be decreased if the screws are fastened too strongly.

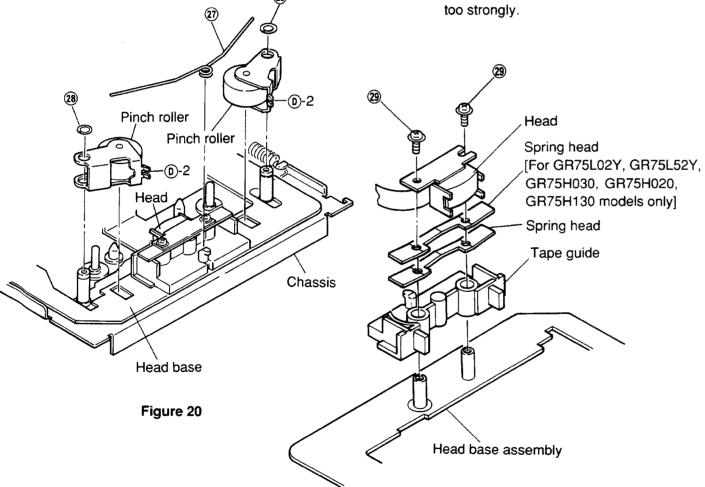
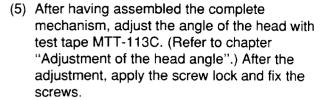
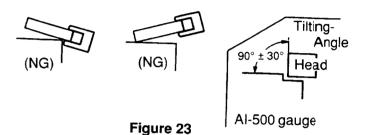


Figure 21

- (4) Adjust the height of the head as shown in Figures 23, 24 and 25.
- Place the height adjustment gauge (AI-500) on the head base, and adjust the height so that the check bar fits in the tape head guide smoothly.
- When the check bar touches the top (or bottom) of the tape guide, insert a spacer (t 0.1 mm or polislider washer t 0.13 mm). If necessary, remove the spacer.

Note: If you do not have a height gauge like described in (4)-1, run the tape at normal speed and adjust the height of the head and the tape head guide so that the tape does not curl.





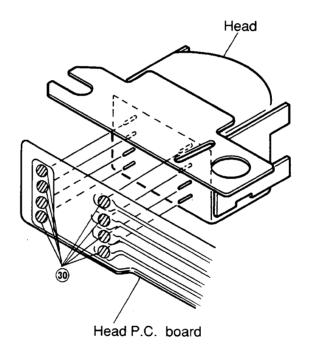


Figure 22

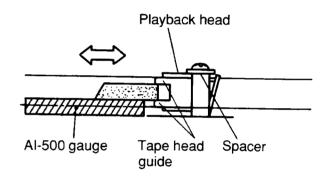
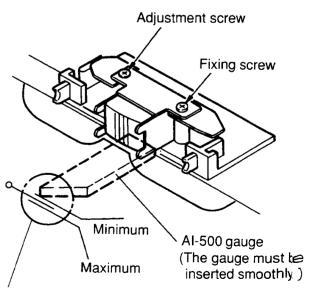


Figure 24

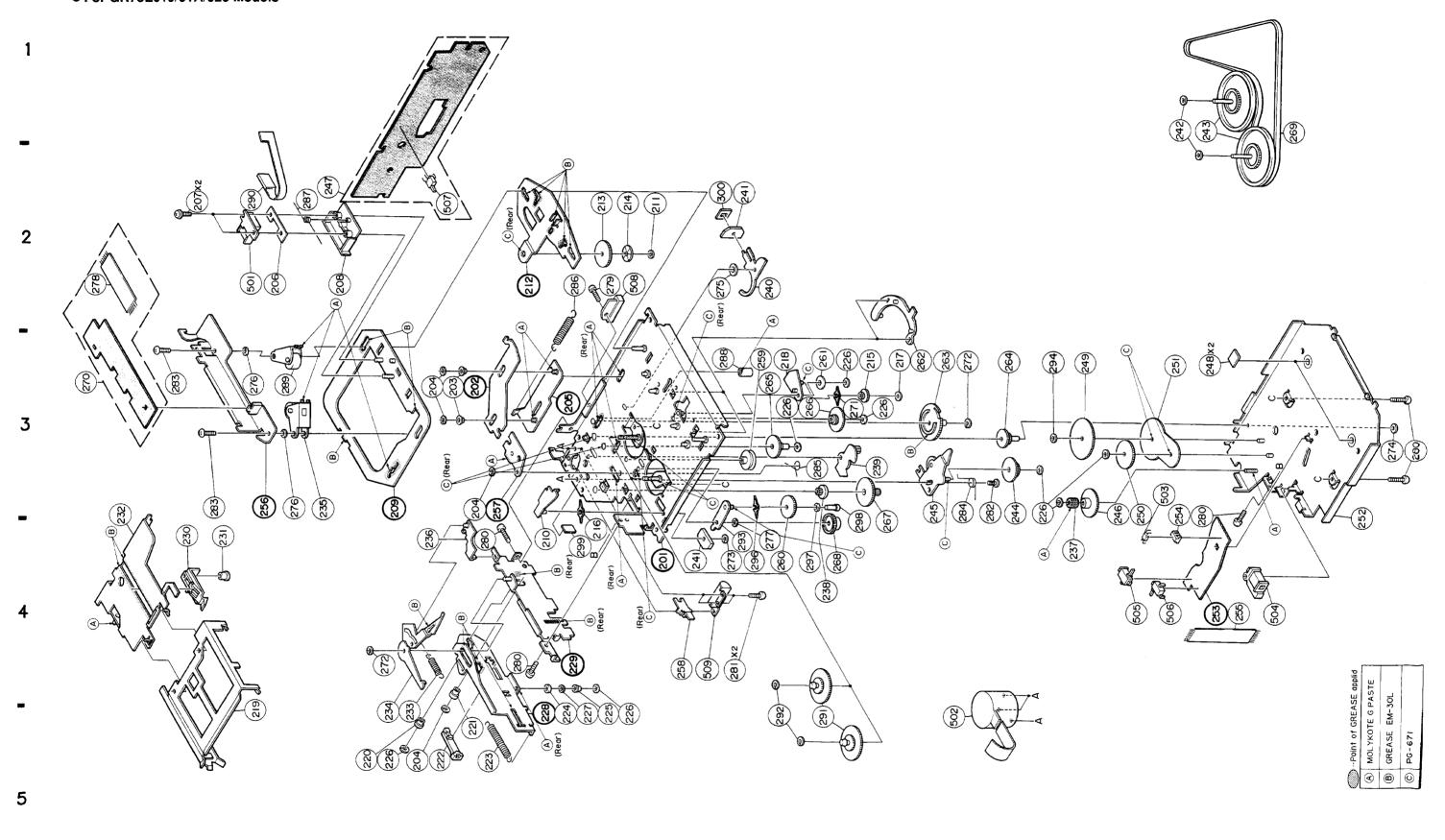


The nosepiece of the gauge must be between the minimum and maximum positions.

Figure 25

# Exploded View (GR75E Series) (1/4)

● For GR75E010/01A/020 Models



- 17 -A B C I D I E I F G I F

# Cassette Deck Assembly Parts List (GR75E Series) (1/4)

<b>n</b> b	юl	1 N-	Part No.	Description
No	) <u>.                                    </u>	dex	1416 110.	
2	03	3 <b>-</b> C	43A11072W01	Roller. Sub Head
2	04		04B41345P01	Washer, Lock(M1.2)
2	06	2-B	41A31756W01	Spring, Head
	207		03S40019G03	Screw, F-Locks (M2x4)
	208	2-B	43B12545W01	Tape. Guide
2	210	4-C	01A10206W01	Assy Riv Lever R/F
2	211	2-D	04B41345P29	Sol   Washer: Lock(M2.6)
	213		44A10295W01	Gear, Sensor
	214	1	14A10681W01	Reflector
	215	3-E	44A30480W01	Gear. Planet
2	216	3-E	41A10097W02	Spring, Clutch
-	217	3-E	04B41345P35	Washer, Lock(M1.7)
	218	3-E	01A30824W01	Assy., Riv Lever
·				Reverse
1	219	4-B	07B40283W01	Holder, Cassette
	219	4-B	07B40283W01	Holder, Cassette
	219	4-B	07B10074W01	Holder, Cassette
1	220	5-B	43A12583W01	Roller. Eject
	221	5-C	43A63281F01	Roller, Plate Base
		ł		i .
	222 223	5-C 5-C	44A82206F01 41B10386W03	Rack Spring. GR(Rack)
	224	4-C	43A10121W01	Roller, Eject A
	225	4-D	43A10360W01	Roller. Eject B
		4-0	1	
	226	, ,	04B41345P11	Washer, Lock (M1.2)
	227	4-D	43A12377W01	Roller, Eject C
	230	4-A	45B10376W01	Slider
ı	231	4-B	47A63278F01	Shaft, Slider
	232	4-A	01A10212W01	Assy. Riv Plate Base
	233	4-C	41B10386W01	Spring, Eject Arm
	234	4-B	01A10148W01	Assy Riv Eject
	235	3-B	01B30863W02	Assy., Pinch Roller
ł	236	4-C	45A10087W01	Lever Pack In SW
!	237	4-F	44A12975W01	Pinion, Eject
1	238	4-E	44A13617W01	Gear, Motor Idler(B)
	239	3-E	01A10201W02	Assy., Riv Lever Pause
	240	2-D	45A40725W01	Lever. Play Sol
	241		76T10374W01	Chip
	242	1-G	04S40075C05	Washer Polystider (M2.1)
	243	1-G	01A10368W01	Assy., Flywheel
	244	3-F	44A10141W01	Gear. Eject Idler
1	245	3-E	01A10205W02	Assy., Riv Lever

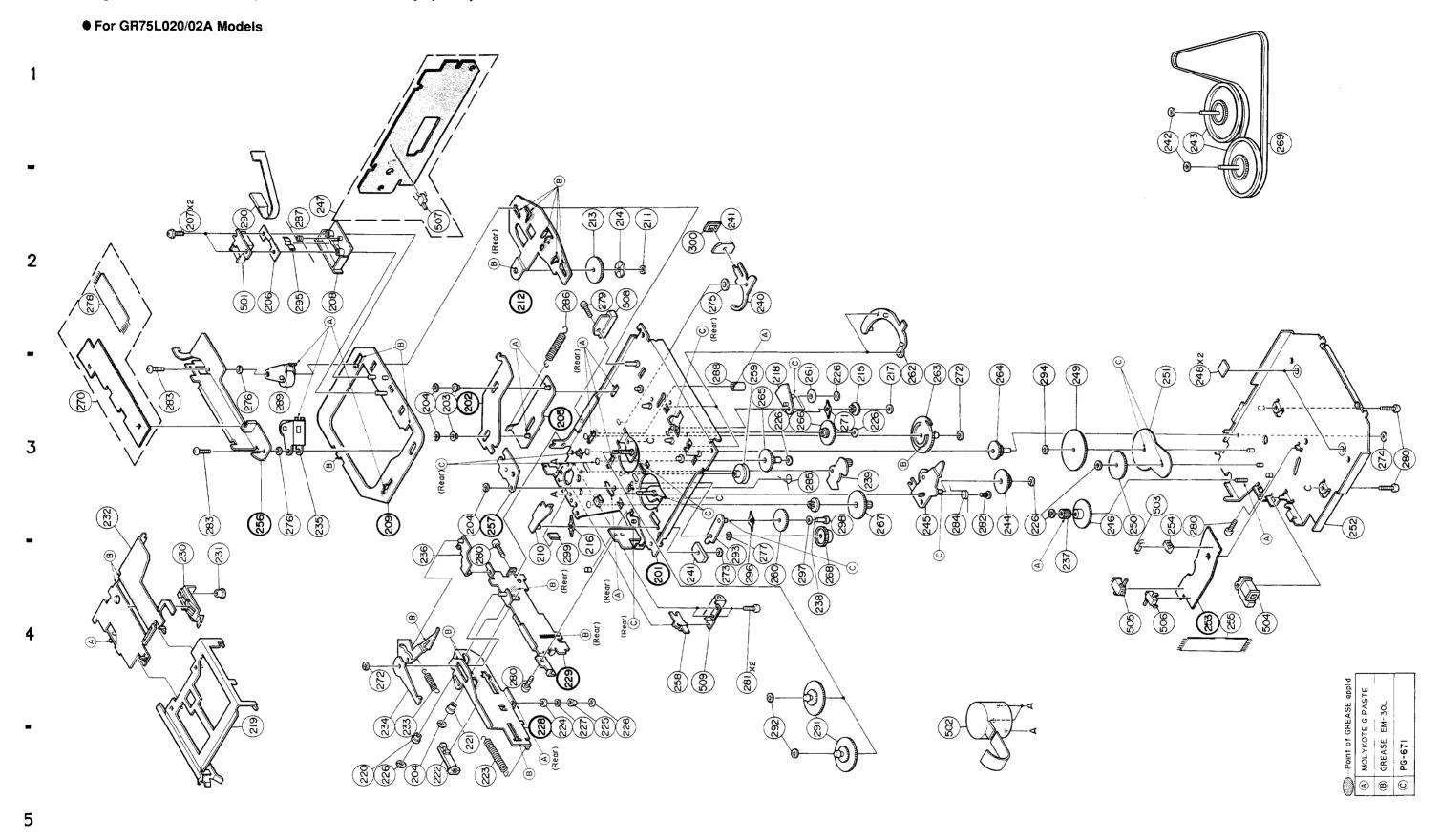
			e:The parts w	ithout parts list are not supplied
		1 N-	Part No.	Description
N	0.	dex		
	246	3-F		Gear. Eject
	247	2-B	01V11500W18	Assy., GR Control
				P.C. Board
	248	3-G	43A41656W01	Spacer UHMW
	249	3-F	44A11063W01	Gear, Bottom A
	250	3-F	44A11064W01	Gear, Bottom B
	251	3-G	34A11122W02	Washer, GR
	252	3 <del>-1</del> 1	01A10210W02	Assy., Riv. Cover Bottom
	254	3-G	15B11065W01	Guide, Photo
	255	4-G	30T15126W01	Wire, PC Sensor(7P)
	258	4-D	45A10101W01	Lever. Eject Sol
	259	3-D	49A10131W01	Pulley. Idler
	260	4-E	44A10133W01	Gear, Take Up
ļ	261	3-E	44A10134W01	Gear, Sun
	262	3-E	44B10135W01	Gear, Fix
í	263			Gear. Pause
	264	3-F	44A10137W01	Gear, Pause Idler A
	265	3-D	44A10379W01	Gear, Pause Idler B
-	266	3-E	44A10138W01	Gear. Reverse Idler
	267		1	Gear, Motor Idler
		l	ì	Gear. Reel Idler
		Ì		
1	269	1-G	42A10380W01	Belt. GR
•	270	3-A	01V14700W68	Assy., GR Audio
				P.C. Board
	270	3-A	01V11500W19	Assy., GR Audio
				P.C. Board
	270	3-A	01V11500W19	Assy., GR Audio
		i i		P.C. Board
	271	3-E	41A30475W01	Spring, Clutch
	272		04B41345P15	Washer, Lock (M1.2)
	273	4-D	04B41345P02	Washer, Lock(M1.7)
	274	3-11	04B41345P17	Washer, Lock(M1)
	275	2-D	04B41345P30	Washer, Lock (M3.1)
	276		04B41345P32	Washer, Lock (M3.1)
	277	4-E	04B41345P37	Washer, Lock (M2.1)
	278	2-A	30T15126W02	Wire. PC Joint 7P
	279	2-D	03S44205G78	Screw. Pan(M2x6)
	280		03S44205G30	Screw. Pan(M2.6x4)
	281	4-D	03S72235F53	Screw. Pan(M2x3.3)
1				
	282	3-1	03A12132W02	Screw. Eject Clutch
İ				(M2x2.3)
ĺ	283		03S43997P64	Screw. Pan(M1.7x3)
	284	3-F	41A10384W01	Spring. Eject Clutch
	285	3-E	41A10385W01	Spring. Cas Push
	286	2-C	41B10386W02	Spring. Sub Head
		İ		
İ				

Syr	ıbol	1 N-	Do-4 V-	Danasiation
-	No.	dex	Part No.	Description
Ť	287	2-B	41A10387W01	Spring. Pinch Roller
	288		43A12719W01	Roller, Pause
		1	01B30863W01	Assy. Pinch Roller
		1	84T25151W01	Head P.C. Board
		4-E	01T35403W01	Assy. Reel
ļ	231	4.6	01130403#01	nasy., Reel
İ	292	4-E	04B41345P12	Washer, Lock(M1.7)
ĺ	293	4-D	01A30161W01	Assy., Riv Lever
				Take Up
	294	3-F	04B41345P34	Washer Lock (M1.2)
1	296	4-D	41A40910W01	Spring. Clutch
	297	4-E	43A41543W01	Washer, Som(M1.2)
	201		101111010101	The state of the s
	298	3-E	47A41458W01	Pin. Take Up
	299	4-C	43A40388W01	Spacer, Polyslider
	300	2-D	43A41744W01	Lock. Solenoid
		<u></u>	<u> </u>	
			Misc	ellaneous
•	501	2-B	88T15971W01	Head
-	501	2-B	88T10373W01	Head
_	501	2-B	88T10373W01	Head
_	502	4-E	01V11500W64	Assy., Motor(Main, 13.2V-80mA)
	503	3-G	51T15144W01	Sensor. Photo
	000	1 3 4	01110144	Sensor: There
	504	4-G	01T10371W01	R/F Sol. Assy.
	505	4-F	40T15382W01	SW. Detector
	303	4-1	40113362#01	(Pack Down)
	500	1, 2	10715000001	1
	506	4-G	40T15382W01	SW., Detector(Metal)
	507	2-C	40T15222W01	SW Detector (Pack In)
		0.5	0171504000	Aggu Play Calassid
	508	2-D	01T15249W01	Assy., Play Solenoid
	500		01710000100	Anny Pione Calaraid
	509	4-D	01T10369W02	Assy., Eject Solenoid
		ĺ		
l				
	1	1		
	1		1	

Notes: ● : For GR75E020 model only ■ : For GR75E010 model only

▲ ; For CR75E01A model only Others : Common

# Exploded View (GR75L Series) (2/4)



- 21 -B C D E F 1

# Cassette Deck Assembly Parts List (GR75E Series) (2/4)

ıbol	1 N-	Part No.	Description
	dex		20011701011
203	3-C	43A11072W01	Roll. Sub Head
204		04B41345P01	Washer Lock (M1.2)
206	2-B	41A31756W01	Spring, Head
207	2-B	03S40019G03	Screw. F-Locks (M2x4)
208	2-B	43B12545W01	Tape, Guide
210	4-C	01A10206W01	Assy., Riv Lever R/F
211	2-D	04B41345P29	Washer, Lock (M2.6)
213	1	44A10295W01	Gear, Sensor
214	1	14A10681W01	Reflector
215	3-E	44A30480W01	Gear. Planet
216	3-E	41A10097W02	Spring, Clutch
217	3-E	04B41345P35	Washer, Lock (M1.7)
218	3-E	01A30824W01	Assy. Riv Lever
210	1	01/100024	Reverse
219	4-B	07B40283W01	Holder, Cassette
220	5-B	43A12583W01	Roller, Eject
221	5-C	43A63281F01	Roller, Plate Base
222	5-C	44A82206F01	Rack
223	5-C	41B10386W03	Spring, GR(Rack)
224	4-C	43A10121W01	Roller, Eject(A)
225	4-D	43A10360W01	Roller. Eject(B)
226		04B41345P11	Washer, Lock (M1.2)
227	4-D	43A12377W01	Roller, Eject(C)
230	4-A	45B10376W01	Slider
231	4-B	47A63278F01	Shaft. Slider
232	4-A	01A10212W01	Assy., Riv Plate Base
233	4-C	41B10386W01	Spring, Eject Arm
234	4-B	01A21754W01	Assy., Riv Eject
			Arm(A)
235	3-B	01B30863W02	Assy Pinch Roller
236	4-C	45A10087W01	Lever. Pack In SW.
237	4-F	44A20314W01	Pinion. Eject
238	4-E	44A13617W01	Gear, Motor Idler(B)
239	3-E	01A10201W02	Assy Riv Lever
			Pause
240	2-E	45A40725W01	Lever, Play Sol
241		76T10374W01	Chip
242	1-G	04S40075G05	Washer. Polyslider
			(M2.1)
243	1-G	01A10368W01	Assy., Flywheel
244	3-F	44A10141W01	Gear. Eject Idler
245	3-E	01A10205W02	Assy Riv Lever
	-		Clutch(A)
246	3-F	44A10145W01	Gear. Eject
247	2-B	01V23700W03	Assy GR Control

Notes : ♦ ; For GR75L020 model only ○ ; For GR75L02A model only

Others ; Common

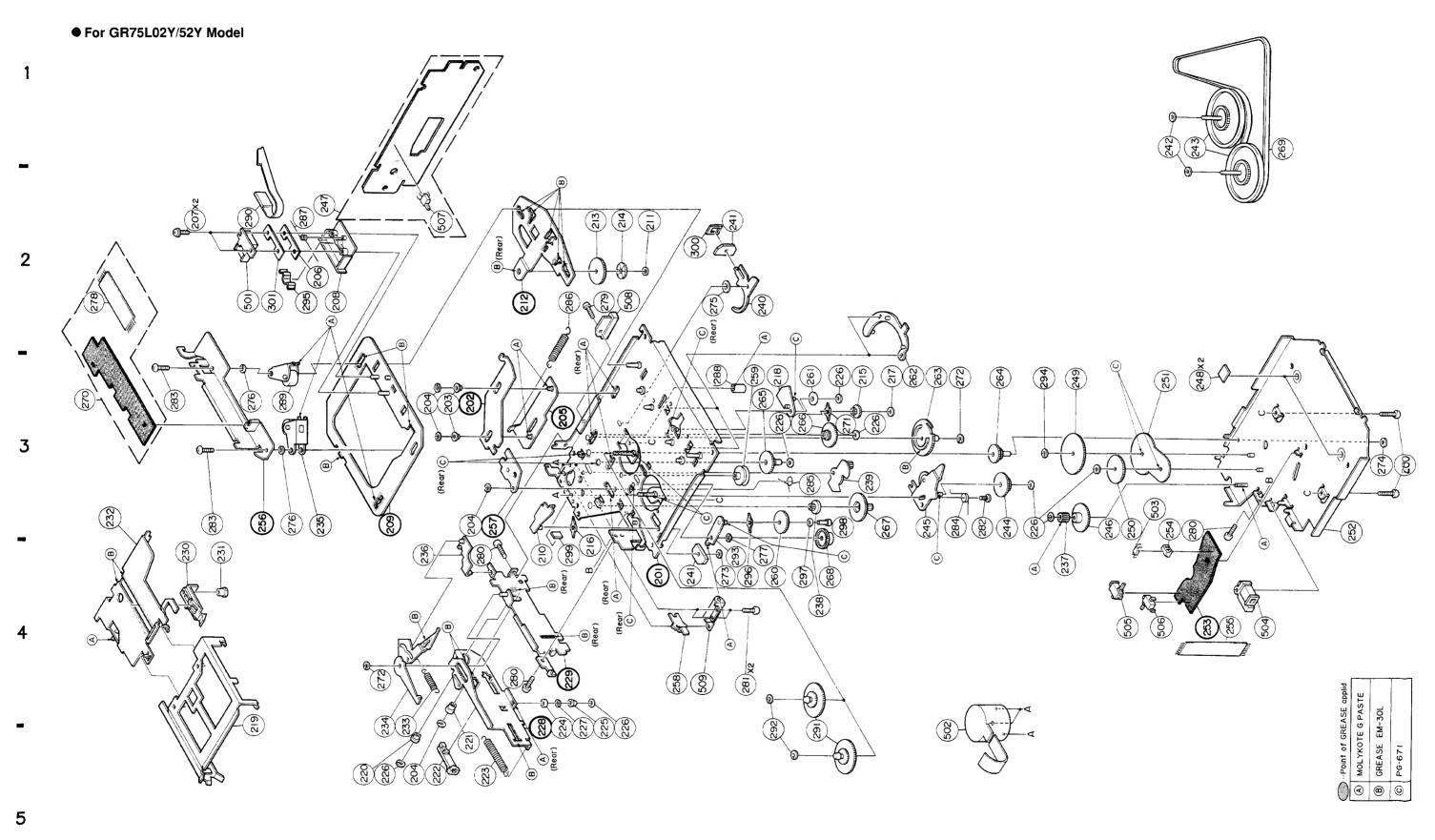
Note	- •	•	e: The marts w	ithout parts list are not supplied
No.   dex	Symbol			
248			Part No.	Description
250			43A41656W01	Spacer. UHMW
251   3-G   34A11122W02   Assyr. Riv. Cover Bottom	249	3-F	44A11063W01	Gear. Bottom(A)
252   3-H   01A10210W02   Assy Riv. Cover Bottom	250	3-F	44A11064W01	Gear. Bottom(B)
254	251	3-G	34A11122W02	Washer GR
255	252	3-H	01A10210W02	Assy., Riv. Cover Bottom
255	1			
258  4-D  45A10101N01	254	3-G	15B11065W01	Guide, Photo
259   3-D	255	4-G		1
260         4-E         44A10133W01         Gear. Take Up           261         3-E         44A10134W01         Gear. Sun           262         3-E         44B10135W01         Gear. Pause           263         3-E         44B10137W01         Gear. Pause idler(A)           265         3-D         44A10138W01         Gear. Pause idler(B)           266         3-E         44A10138W01         Gear. Reverse idler           267         3-E         44A10138W01         Gear. Motor idler           268         4-E         44A1062W01         Gear. Reel idler           269         1-G         42A10380W01         Assy. GR Audio           270         3-A         01V14700V68         Assy. GR Audio           271         3-E         41A30475W01         Spring. Clutch           272         3-F         04B41345P15         Vasher. Lock(MI.2)           273         4-D         04B41345P20         Vasher. Lock(MI.7)           274         3-H         04B41345P37         Vasher. Lock(MI.1)           275         2-D         03B44205G78         Vasher. Lock(M2.1)           277         4-E         04B41345P37         Vasher. Lock(M2.1)           278         2-D         <	258	4-D	45A10101W01	Lever, Eject Sol.
261         3-E         44A10134W01         Gear. Sun           262         3-E         44B10135W01         Gear. Fix           263         3-E         44B21670W01         Gear. Pause           264         3-F         44A10137W01         Gear. Pause idler(A)           265         3-D         44A10138W01         Gear. Pause idler(B)           266         3-E         44A10138W01         Gear. Reverse idler           267         3-E         44A10138W01         Gear. Reel idler           268         4-E         44A100380W01         Gear. Reel idler           269         1-G         42A10380W01         Belt. GR           270         3-A         01V14700W68         Assy GR Audio           P.C. Board         P.C. Board           271         3-E         41A30475W01         Vasher. Lock(MI.?)           272         3-F         04B41345P17         Vasher. Lock(MI.?)           273         4-D         04B41345P30         Vasher. Lock(M3.1)           274         3-H         04B41345P32         Vasher. Lock(M3.1)           275         2-D         03S44205G30         Vasher. Lock(M3.1)           276         04B41345P32         Vasher. Lock(M2.1)	259	3-D	I	
262 3-E 44B10135W01 Gear. Fix 263 3-E 44B21670W01 Gear. Pause 264 3-F 44A10137W01 Gear. Pause idler(A) 265 3-D 44A10379W01 Gear. Pause idler(B)  266 3-E 44A10138W01 Gear. Reverse Idler 267 3-E 44A1039W01 Gear. Motor idler 268 4-E 44A11062W01 Gear. Reel Idler 269 1-G 42A10380W01 Belt. GR 270 3-A 01V14700W68 Syring. CR Audio 271 3-E 41A30475W01 Spring. Clutch 272 3-F 04B41345P15 Washer. Lock(M1.2) 273 4-D 04B41345P02 Washer. Lock(M1.7) 274 3-H 04B41345P30 Washer. Lock(M1.7) 275 2-D 04B41345P37 Washer. Lock(M3.1)  276 04B41345P32 Washer. Lock(M3.1) 277 4-E 04B41345P37 Washer. Lock(M3.1) 278 2-A 30T15126W02 Washer. Lock(M2.1) 279 2-D 03S44205G78 Screw. Pan(M2x6) 280 03S44205G30 Screw. Pan(M2x6) 281 4-D 03S72235F53 Screw. Pan(M2.6x4)  281 4-D 03S72235F53 Screw. Pan(M2x6) 282 3-F 03A12132W02 Screw. Eject Clutch (M2x2.3) 283 03S43997P64 Screw. Pan(M1.7x3) 284 3-F 41A10384W01 Spring. Eject Clutch (M2x2.3) 285 3-E 41A10386W02 Spring. Sub Head 287 2-B 41A10387W01 Spring. Sub Head 288 3-D 43A12719W01 Spring. Pinch Roller 288 3-D 43A12719W01 Assy Pinch Roller	260	4-E	44A10133W01	Gear. Take Up
262 3-E 44B10135W01 Gear. Fix 263 3-E 44B21670W01 Gear. Pause 264 3-F 44A10137W01 Gear. Pause idler(A) 265 3-D 44A10379W01 Gear. Pause idler(B)  266 3-E 44A10138W01 Gear. Reverse Idler 267 3-E 44A1039W01 Gear. Motor idler 268 4-E 44A11062W01 Gear. Reel Idler 269 1-G 42A10380W01 Belt. GR 270 3-A 01V14700W68 Syring. CR Audio 271 3-E 41A30475W01 Spring. Clutch 272 3-F 04B41345P15 Washer. Lock(M1.2) 273 4-D 04B41345P02 Washer. Lock(M1.7) 274 3-H 04B41345P30 Washer. Lock(M1.7) 275 2-D 04B41345P37 Washer. Lock(M3.1)  276 04B41345P32 Washer. Lock(M3.1) 277 4-E 04B41345P37 Washer. Lock(M3.1) 278 2-A 30T15126W02 Washer. Lock(M2.1) 279 2-D 03S44205G78 Screw. Pan(M2x6) 280 03S44205G30 Screw. Pan(M2x6) 281 4-D 03S72235F53 Screw. Pan(M2.6x4)  281 4-D 03S72235F53 Screw. Pan(M2x6) 282 3-F 03A12132W02 Screw. Eject Clutch (M2x2.3) 283 03S43997P64 Screw. Pan(M1.7x3) 284 3-F 41A10384W01 Spring. Eject Clutch (M2x2.3) 285 3-E 41A10386W02 Spring. Sub Head 287 2-B 41A10387W01 Spring. Sub Head 288 3-D 43A12719W01 Spring. Pinch Roller 288 3-D 43A12719W01 Assy Pinch Roller			<b>9.</b>	
263		1	i	I .
264 3-F 44A10137W01 Gear. Pause Idler(A) 265 3-D 44A10379W01 Gear. Pause Idler(B)  266 3-E 44A10138W01 Gear. Reverse Idler 267 3-E 44A10138W01 Gear. Motor Idler 268 4-E 44A11062W01 Gear. Reel Idler 269 1-G 42A10380W01 Belt. GR 270 3-A 01V14700W68 Ssy. GR Audio 271 3-E 41A30475W01 Spring. Clutch 272 3-F 04B41345P15 Washer. Lock(M1.2) 273 4-D 04B41345P02 Washer. Lock(M1.7) 274 3-H 04B41345P17 Washer. Lock(M1.7) 275 2-D 04B41345P30 Washer. Lock(M3.1)  276 04B41345P32 Washer. Lock(M3.1) 277 4-E 04B41345P32 Washer. Lock(M3.1) 278 2-A 30T15126W02 Washer. Lock(M2.1) 279 2-D 03S44205G78 Screw. Pan(M2x6) 280 03S44205G30 Screw. Pan(M2x6) 281 4-D 03S72235F53 Screw. Pan(M2x6) 282 3-F 03A12132W02 Screw. Eject Clutch (M2x2.3) 283 03S43997P64 Screw. Pan(M1.7x3) 284 3-F 41A10384W01 Spring. Eject Clutch 285 3-E 41A10385W01 Spring. Cas. Push 286 2-C 41B10386W02 Spring. Sub Head 287 2-B 41A10387W01 Spring. Sub Head 288 3-D 43A12719W01 Roller Pause 289 3-B 01B30863W01 Assy Pinch Roller		1	1	
265   3-D			1	1
266         3-E         44A10138W01         Gear. Reverse Idler           267         3-E         44A10139W01         Gear. Motor Idler           268         4-E         44A11062W01         Gear. Reel Idler           269         1-G         42A10380W01         Belt. GR           270         3-A         01V14700W68         Assy GR Audio           271         3-E         41A30475W01         Spring. Clutch           272         3-F         04B41345P15         Washer. Lock (MI.2)           273         4-D         04B41345P02         Washer. Lock (MI.7)           274         3-H         04B41345P37         Washer. Lock (M3.1)           275         2-D         04B41345P32         Washer. Lock (M3.1)           276         04B41345P37         Washer. Lock (M3.1)           277         4-E         04B41345P37         Washer. Lock (M2.1)           279         2-D         03S44205G78         Screw. Pan (M2.6)           280         03S44205G30         Screw. Pan (M2.6)           281         4-D         03S72235F53         Screw. Pan (M2.3.3)           282         3-F         03A12132W02         Screw. Eject Clutch           (M2x2.3)         Screw. Pan (M1.7x3)	264	3-F	1	!
267	265	3-D	44A10379W01	Gear. Pause Idler(B)
267				
268       4-E       44A11062W01       Gear. Reel Idler         269       1-G       42A10380W01       Belt. GR         270       3-A       01V14700W68       Assy GR Audio         P.C. Board       P.C. Board         271       3-E       41A30475W01       Spring. Clutch         272       3-F       04B41345P15       Washer. Lock (M1.2)         273       4-D       04B41345P02       Washer. Lock (M1.7)         274       3-H       04B41345P17       Washer. Lock (M3.1)         275       2-D       04B41345P32       Washer. Lock (M3.1)         276       04B41345P37       Washer. Lock (M2.1)         277       4-E       04B41345P37       Washer. Lock (M2.1)         279       2-D       03S44205G78       Screw. Pan (M2x6)         280       03S44205G30       Screw. Pan (M2x6)         281       4-D       03S72235F53       Screw. Pan (M2x3.3)         282       3-F       03A12132W02       Screw. Pan (M1.7x3)         283       03S43997P64       Screw. Pan (M1.7x3)         284       3-F       41A10385W01       Spring. Cas. Push         286       2-C       41B10386W02       Spring. Sub Head         287		1	1	
269		1		
270			1	
P.C. Board  P. Borne, Lock (M1. 7)  Pasher, Lock (M1. 7)  Washer, Lock (M3.1)  Washer, Lock (M3.1)  Washer, Lock (M2.1)  Washer, Lock (M2.1)  Washer, Lock (M2.1)  Washer, Lock (M2.1)  Washer, Lock (M2.1)  Washer, Lock (M2.1)  Washer, Lock (M2.1)  Washer, Lock (M2.1)  Washer, Lock (M2.1)  Washer, Lock (M2.1)  Washer, Lock (M2.1)  Vasher, Lock (M2.1)  Washer, Lock (M3.1)  Washer, Lock (M3.1)  Washer, Lock (M3.1)  Washer, Loc		1		
271 3-E 41A30475W01 Spring. Clutch 272 3-F 04B41345P15 Washer. Lock (M1.2) 273 4-D 04B41345P02 Washer. Lock (M1.7) 274 3-H 04B41345P17 Washer. Lock (M1.7) 275 2-D 04B41345P30 Washer. Lock (M3.1) 276 04B41345P32 Washer. Lock (M3.1) 277 4-E 04B41345P37 Washer. Lock (M3.1) 278 2-A 30T15126W02 Wire. PC Joint 7P 279 2-D 03S44205G78 Screw. Pan (M2x6) 280 03S44205G30 Screw. Pan (M2x6) 281 4-D 03S72235F53 Screw. Pan (M2x3.3) 282 3-F 03A12132W02 Screw. Eject Clutch (M2x2.3) 283 03S43997P64 Screw. Pan (M1.7x3) 284 3-F 41A10385W01 Spring. Eject Clutch Spring. Cas. Push 286 2-C 41B10386W02 Spring. Sub Head 287 2-B 41A10387W01 Spring. Sub Head 288 3-D 43A12719W01 Roller. Pause 289 3-B 01B30863W01 Assy Pinch Roller	270	3-A	01714700%68	
272   3-F   04B41345P15   Washer. Lock (M1.2)				P.C. Board
272   3-F   04B41345P15   Washer. Lock (M1.2)	071	2	41420475901	Spring Clutch
273         4-D         04B41345P02         Washer. Lock(M1.7)           274         3-H         04B41345P17         Washer. Lock(M1)           275         2-D         04B41345P30         Washer. Lock(M3.1)           276         04B41345P32         Washer. Lock(M3.1)           277         4-E         04B41345P37         Washer. Lock(M2.1)           278         2-A         30T15126W02         Wire. PC Joint 7P           279         2-D         03S44205G78         Screw. Pan(M2x6)           280         03S44205G30         Screw. Pan(M2.6x4)           281         4-D         03S72235F53         Screw. Pan(M2x3.3)           282         3-F         03A12132W02         Screw. Eject Clutch           (M2x2.3)         Screw. Pan(M1.7x3)         Spring. Eject Clutch           284         3-F         41A10385W01         Spring. Cas. Push           286         2-C         41B10386W02         Spring. Sub Head           287         2-B         41A10387W01         Spring. Pinch Roller           288         3-D         43A12719W01         Assy Pinch Roller	i	-		
274		-	1	
275   2-D   04B41345P30   Washer. Lock(M3.1)	i	,	1	ļ
276	- 1	Į.	1	
277         4-E         04B41345P37         Washer, Lock (M2.1)           278         2-A         30T15126W02         Wire, PC Joint 7P           279         2-D         03S44205G78         Screw, Pan (M2x6)           280         03S4205G30         Screw, Pan (M2x3.3)           281         4-D         03S72235F53         Screw, Pan (M2x3.3)           282         3-F         03A12132W02         Screw, Eject Clutch (M2x2.3)           283         03S43997P64         Screw, Pan (M1.7x3)           284         3-F         41A10384W01         Spring, Eject Clutch Spring, Cas, Push           285         3-E         41A10385W01         Spring, Sub Head           287         2-B         41A10387W01         Spring, Pinch Roller           288         3-D         43A12719W01         Roller, Pause           289         3-B         01B30863W01         Assy., Pinch Roller	2.13			
277         4-E         04B41345P37         Washer, Lock (M2.1)           278         2-A         30T15126W02         Wire, PC Joint 7P           279         2-D         03S44205G78         Screw, Pan (M2x6)           280         03S4205G30         Screw, Pan (M2x3.3)           281         4-D         03S72235F53         Screw, Pan (M2x3.3)           282         3-F         03A12132W02         Screw, Eject Clutch (M2x2.3)           283         03S43997P64         Screw, Pan (M1.7x3)           284         3-F         41A10384W01         Spring, Eject Clutch Spring, Cas, Push           285         3-E         41A10385W01         Spring, Sub Head           287         2-B         41A10387W01         Spring, Pinch Roller           288         3-D         43A12719W01         Roller, Pause           289         3-B         01B30863W01         Assy., Pinch Roller	276		04B41345P32	Washer, Lock(M3.1)
279   2-D   03S44205G78   Screw. Pan(M2x6)	277	4-E	04B41345P37	1
280	278	2-A	30T15126W02	Wire, PC Joint 7P
281 4-D 03S72235F53 Scrow. Pan(M2x3.3) 282 3-F 03A12132W02 Screw. Eject Clutch (M2x2.3) 283 03S43997P64 Scrow. Pan(M1.7x3) 284 3-F 41A10384W01 Spring. Eject Clutch 285 3-E 41A10385W01 Spring. Cas. Push 286 2-C 41B10386W02 Spring. Sub Head 287 2-B 41A10387W01 Spring. Pinch Roller 288 3-D 43A12719W01 Roller. Pause 289 3-B 01B30863W01 Assy Pinch Roller	279	2-D	03S44205G78	Screw. Pan(M2x6)
282   3-F   03A12132W02   Screw. Eject Clutch (M2x2.3)  283   03S43997P64   Screw. Pan(M1.7x3)  284   3-F   41A10384W01   Spring. Eject Clutch   285   3-E   41A10385W01   Spring. Cas. Push  286   2-C   41B10386W02   Spring. Sub Head   287   2-B   41A10387W01   Spring. Pinch Roller   288   3-D   43A12719W01   Roller. Pause   289   3-B   01B30863W01   Assy Pinch Roller	280	ļ	03S44205G30	Screw, Pan(M2.6x4)
282   3-F   03A12132W02   Screw. Eject Clutch (M2x2.3)  283   03S43997P64   Screw. Pan(M1.7x3)  284   3-F   41A10384W01   Spring. Eject Clutch   285   3-E   41A10385W01   Spring. Cas. Push  286   2-C   41B10386W02   Spring. Sub Head   287   2-B   41A10387W01   Spring. Pinch Roller   288   3-D   43A12719W01   Roller. Pause   289   3-B   01B30863W01   Assy Pinch Roller				
283		Ì	1	·
284 3-F 41A10384W01 Spring. Eject Clutch 285 3-E 41A10385W01 Spring. Cas. Push  286 2-C 41B10386W02 Spring. Sub Head 287 2-B 41A10387W01 Spring. Pinch Roller 288 3-D 43A12719W01 Roller. Pause 289 3-B 01B30863W01 Assy. Pinch Roller	282	3-1	03A12132W02	-
284 3-F 41A10384W01 Spring. Eject Clutch 285 3-E 41A10385W01 Spring. Cas. Push  286 2-C 41B10386W02 Spring. Sub Head 287 2-B 41A10387W01 Spring. Pinch Roller 288 3-D 43A12719W01 Roller. Pause 289 3-B 01B30863W01 Assy Pinch Roller	000		00010005001	,
285		9.5		
286 2-C 41B10386W02 Spring. Sub Head 287 2-B 41A10387W01 Spring. Pinch Roller 288 3-D 43A12719W01 Roller. Pause 289 3-B 01B30863W01 Assy Pinch Roller	1			
287 2-B 41A10387W01 Spring Pinch Roller 288 3-D 43A12719W01 Roller Pause 289 3-B 01B30863W01 Assy. Pinch Roller	200	3-E	41VINGQQM01	SPITING, CAS. FUSII
287 2-B 41A10387W01 Spring Pinch Roller 288 3-D 43A12719W01 Roller Pause 289 3-B 01B30863W01 Assy. Pinch Roller	286	2-0	41810386802	Spring, Sub Head
288 3-D 43A12719W01 Roller Pause 289 3-B 01B30863W01 Assy. Pinch Roller				
289 3-B 01B30863W01 Assy. Pinch Roller	1			· -
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		}	1	
			-	

-	nbol	i N-	Part No.	Description
-	No.	dex		
1		1	01T35403W02	Assy., Reel
	292		04B41345P12	Washer, Lock (M1.7)
	293	4-0	01A30161W01	Assy. Riv Lever
Ì	20.4	0.0	04041045004	Take Up
	294	3-F	04B41345P34	Washer, Lock(M1.2) Shield, Plate
	295	2-B	26A20537W01	Shield, Plate
1	000	, ,	41440010001	Spring, Clutch
			41A40910W01 43A41543W01	Washer Som (M1.2)
	298	ļ	47A41458W01	Pin. Take Up
	299		43A40388W01	Spacer, Polyslider
	300	2-D	43A41744W01	Lock, Solenoid
	300	2-0	40/41/44#01	DOCK SCIENTS
			Misc	ellaneous
	501	2-B	88T15971W01	Head
•	502	4-E	01V23900W60	Assy. Motor(13.2V-105mA)
)	502		01V43400W37	Assy., Motor(13.2V-88mA)
	503		51T15144W01	Sensor, Photo
	504	4-G	01T10371W01	R/F Sol. Assy
	505	4-F	40T15382W01	SW. Detector (Pack Down)
	506	4-G	40T15382W01	SW., Detector (Metal)
	507	2-C	40T15222W01	SW., Detector (Pack In)
	508	2-D	01T15249W01	Assy., Play Solenoid
	509	4-D	01T10369W02	Assy., Eject Solenoid
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	1			
	ļ	1		

Notes : ♦ ; For CR75L020 model only ○ ; For CR75L02A model only

Others ; Common

# Exploded View (GR-Y Series) (3/4)



- 25 -A 1 B 1 C 1 D 1 E 1 F 1

# Cassette Deck Assembly Parts List (GR-Y Series) (3/4)

Si	mbol No.	1N- dex	Part No.	Description
	203	3-C	43A11072W01	Roll. Sub Head
İ	204		04B41345P01	Washer, Lock(M1.2)
	206	2-B	41A31756W01	Spring. Head
ł	207	2-B	03S40019G03	Screw. F-Locks(M2x4)
ŀ	208	2-B	43B12545W01	Tape, Guide
	210	4-C	01A10206W01	Assy Riv Lever R/F Sol.
	211	2-D	04B41345P29	Washer, Lock(M2.6)
	213	2-D	44A10295W01	Gear, Sensor
	214	2-D	14A10681W01	Reflector
	215	3-E	44A30480W01	Gear, Planet
			111100100#01	Joan France
	216		41A10097W02	Spring, Clutch
	217	3-E	04B41345P35	Washer, Lock (M1.7)
	218	3-E	01A30824W01	Assy., Riv Lever
1	210	"	31700074401	Reverse
	219	4-B	07B40283W01	Holder, Cassette
	220	5-B	43A12583W01	Roller, Eject
	220	J-B	43812363901	norter. Eject
	221	5-C	43A63281F01	Roller, Plate Base
		5-C	l	Rack
	222		44A82206F01	
	223	5-C	41B10386W03	Spring, GR(Rack)
	224	4-C	43A10121W01	Roller, Eject(A)
İ	225	4-D	43A10360W01	Roller. Eject(B)
			04041045011	Wash as 1 - 1 (W 0)
	226		04B41345P11	Washer, Lock (M1.2)
	227	4-D	43A12377W01	Roller, Eject(C)
	230	4-A	45B10376W01	Slider
	231	4-B	47A63278F01	Shaft, Slider
	232	4-A	01A10212W01	Assy., Riv Plate Base
	233	4-C	41B10386W01	Spring, Eject Arm
ł	234	4-B	01A21754W01	Assy. Riv Eject
į	201	1 2	01	Arm(A)
	235	3-B	01B30863W02	Assy., Pinch Roller
1	236	4-C	45A10087W01	Lever, Pack In SW.
l	237	4-F	44A20314W01	Pinion, Eject
	201	' '	1100011801	
1	238	4-E	44A13617W01	Gear, Motor Idler(B)
1	239	3-E	01A10201W02	Assy., Riv Lever
		-		Pause
	240	2-D	45A40725W01	Lever, Play Sol.
	241		76T10374W01	Chip
l	242	1-G	04S40075G05	Washer, Polyslider
l	242	1 0	04340070000	(M2.1)
				(112.17)
	243	1-G	01A10368W01	Assy. Flywheel
	244	3-F	44A10141W01	Gear, Eject Idler
İ	245	3-E	01A10205W02	Assy., Riv Lever
	240	O-E	01710702407	Clutch(A)
	246	3-F	44A10145W01	Gear. Eject
☆	247	2-B	01V23700W03	Assy. GR Control
۳ ا	641	L-D	01150100#09	P.C. Board
				1.0. Doate
	ı			ı

Symbol   No.   dex   Part No.   Description		1		, \ ,
No.   dex			e:The parts v	without parts list are not supplied.
No.   dex	Symbol	1 N-	Part No.	Description
248   3-G   43A41656V01   249   3-F   44A11063V01   250   3-F   44A11063V01   251   3-G   34A11122V02   252   3-H   01A10210V02   253   3-C   15B11065V01   255   4-C   30T15126V01   258   4-D   45A10101V01   259   3-D   49A10131V01   261   3-E   44A10133V01   262   3-E   44B10135V01   262   3-E   44B10135V01   262   3-E   44B10135V01   262   3-E   44A10133V01   262   3-E   44A10133V01   262   3-E   44A10133V01   262   3-E   44A10133V01   262   3-E   44A10133V01   262   3-E   44A10133V01   262   3-E   44A10133V01   262   263   3-E   44A10133V01   262   263   3-E   44A10133V01   262   263   3-E   44A10133V01   262   263   3-E   44A10133V01   262   263   3-E   44A10133V01   262   263   3-E   44A10133V01   262   263   3-E   44A10133V01   262   263   3-E   44A10133V01   262   263   264   26		dex		
249   3-F	♦ 247			Assy., GR Control P.C. Board
250   3-F   44A11064V01   251   3-G   34A11122V02   252   3-H   01A10210V02   253   3-G   15B11065V01   255   4-G   30T15126V01   258   4-D   45A10101V01   258   4-D   45A10101V01   259   3-D   49A10131V01   260   3-E   44A10133V01   261   3-E   44A10133V01   262   3-E   44A10134V01   263   3-E   44A10134V01   264   3-F   44A10134V01   265   3-D   44A10134V01   266   3-E   44A10134V01   267   3-E   44A10134V01   268   4-E   44A10134V01   268   4-E   44A10134V01   268   4-E   44A10348V01   269   1-G   42A10380V01   271   3-E   41A30475V01   273   04B41345P15   04B41345P15   04B41345P15   04B41345P15   04B41345P17   274   3-H   04B41345P17   275   2-D   04B41345P17   276   3-B   04B41345P30   277   4-E   04B41345P30   277   4-E   04B41345P37   278   2-A   30T15126V02   279   2-D   03S44205G78   279   279   2-D   03S44205G78   279	248	1	1	Spacer, UHMW
251   3-G   34A11122W02   Washer. GR	249	3-F	44A11063W01	Gear. Bottom(A)
252   3-H   01A10210W02   15B1065W01   255   4-G   30T15126W01   259   3-D   49A10131W01   260   4-E   44A10133W01   261   3-E   44A10135W01   262   3-E   44B10135W01   263   3-E   44B10135W01   264   3-F   44A10137W01   265   3-D   44A10137W01   266   3-E   44A10137W01   266   3-E   44A10137W01   267   3-E   44A10137W01   268   4-E   44A10138W01   268   4-E   44A10138W01   269   1-G   42A10380W01   269   1-G   42A10380W01   271   3-E   41A30475W01   272   3-F   04B41345P15   04B41345P15   04B41345P15   04B41345P17   04B41345P17   04B41345P17   04B41345P17   04B41345P17   04B41345P17   04B41345P17   04B41345P17   04B41345P37   276   3-B   04B41345P30   04B41345P37   277   4-E   04B41345P37   278   2-A   30T15126W02   279   2-D   03S44205G78   Screw Pan(M2x6)   Screw Pan(M2x6)   Screw Pan(M2x6)   Spring Clutch (M2x2.3)   283   03S43997P64   3-F   41A10385W01   Screw Pan(M1.7x3)   Spring Edect Clutch (M2x2.3)   Screw Pan(M1.7x3)   Spring Edect Clutch (M2x2.3)   Screw Pan(M1.7x3)   Spring Edect Clutch (M2x2.3)   Screw Pan(M1.7x3)   Spring Edect Clutch (M2x2.3)   Spring	250	3-F	44A11064W01	Gear, Bottom(B)
254   3-G   15811065V01   Cuide. Photo   255   4-G   30T15126V01   Wire. PC Sensor(7P)   Lever. Eject Sol.   Pulley. Idler	251	3-G	34A11122W02	Washer, GR
254   3-G   15811065V01   Cuide. Photo   255   4-G   30T15126V01   Wire. PC Sensor(7P)   Lever. Eject Sol.   Pulley. Idler	ļ			
255	252	3-H	01A10210W02	Assy., Riv. Cover Bottom
258	254	3-G	15B11065W01	Guide. Photo
259   3-D	255	4-G	30T15126W01	Wire, PC Sensor(7P)
260	258	4-D	45A10101W01	Lever, Eject Sol.
261 3-E 44A10134W01 262 3-E 44B10135W01 263 3-E 44B10135W01 264 3-F 44A10137W01 264 3-F 44A10137W01 265 3-D 44A10379W01 266 3-E 44A10138W01 267 3-E 44A10138W01 269 1-G 42A1038W01 270 3-A 01V33300W03 271 3-E 41A30475W01 272 3-F 04B41345P15 04B41345P17 274 3-H 04B41345P37 274 3-H 04B41345P37 278 2-A 30T15126W02 277 4-E 04B41345P37 278 2-B 03S44205G78 279 2-D 03S44205G78 279 2-D 03S44205G78 279 2-D 03S43997P64 279 279 2-D 03S43997P64 279 279 2-D 03S43997P64 279 279 279 279 279 279 279 279 279 279	259		1	Pulley, Idler
261 3-E 44A10134W01 262 3-E 44B10135W01 263 3-E 44B10135W01 264 3-F 44A10137W01 264 3-F 44A10137W01 265 3-D 44A10379W01 266 3-E 44A10138W01 267 3-E 44A10138W01 269 1-G 42A1038W01 270 3-A 01V33300W03 271 3-E 41A30475W01 272 3-F 04B41345P15 04B41345P17 274 3-H 04B41345P37 274 3-H 04B41345P37 278 2-A 30T15126W02 277 4-E 04B41345P37 278 2-B 03S44205G78 279 2-D 03S44205G78 279 2-D 03S44205G78 279 2-D 03S43997P64 279 279 2-D 03S43997P64 279 279 2-D 03S43997P64 279 279 279 279 279 279 279 279 279 279				
261 3-E 44A10134W01 262 3-E 44B10135W01 263 3-E 44B10135W01 264 3-F 44A10137W01 264 3-F 44A10137W01 265 3-D 44A10379W01 266 3-E 44A10138W01 267 3-E 44A10138W01 269 1-G 42A1038W01 270 3-A 01V33300W03 271 3-E 41A30475W01 272 3-F 04B41345P15 04B41345P17 274 3-H 04B41345P37 274 3-H 04B41345P37 278 2-A 30T15126W02 277 4-E 04B41345P37 278 2-B 03S44205G78 279 2-D 03S44205G78 279 2-D 03S44205G78 279 2-D 03S43997P64 279 279 2-D 03S43997P64 279 279 2-D 03S43997P64 279 279 279 279 279 279 279 279 279 279	260	4-E	44410133W01	Gear. Take Up
262         3-E         44B10135W01         Gear. Fix           263         3-E         44B21670W01         Gear. Pause           264         3-F         44A10137W01         Gear. Pause Idler(A)           265         3-D         44A10137W01         Gear. Pause Idler(B)           266         3-E         44A10138W01         Gear. Reverse Idler           267         3-E         44A10138W01         Gear. Reel Idler           269         1-G         42A10380W01         Belt. GR           270         3-A         01V33300W03         Assy GR Audio           271         3-E         41A30475W01         Spring. Clutch           272         3-F         04B41345P15         Washer. Lock(M1.2)           273         3-H         04B41345P20         Washer. Lock(M1.7)           274         3-H         04B41345P30         Washer. Lock(M1.7)           275         2-D         04B41345P32         Washer. Lock(M3.1)           277         4-E         04B41345P32         Washer. Lock(M3.1)           278         2-A         30T15126W02         Washer. Lock(M3.1)           279         2-D         03S44205G30         Screw. Pan(M2.84)           281         4-D	1		1	
263 3-E 44B21670W01	1			
264         3-F         44A101379V01         Gear. Pause Idler(A)           265         3-D         44A10389V01         Gear. Pause Idler(B)           266         3-E         44A101389V01         Gear. Reverse Idler           267         3-E         44A11062W01         Gear. Reel Idler           268         4-E         44A10380W01         Gear. Reel Idler           269         1-G         42A10380W03         Assy GR Audio           270         3-A         01V33300W03         Assy GR Audio           271         3-E         41A30475W01         Spring. Clutch           272         3-F         04B41345P15         Washer. Lock(M1.2)           273         04B41345P20         Washer. Lock(M1.2)           274         3-H         04B41345P30         Washer. Lock(M1.7)           275         2-D         04B41345P32         Washer. Lock(M3.1)           277         4-E         04B41345P37         Washer. Lock(M2.1)           279         2-D         03S44205G78         Screw. Pan(M2x6)           280         03S42205G30         Screw. Pan(M2x6)           281         4-D         03S72235F53         Screw. Pan(M1.7x3)           282         3-F         03A12132W02		1		
265 3-D 44A10379W01 Gear. Pause Idler(B) 266 3-E 44A10138W01 Gear. Reverse Idler 267 3-E 44A10139W01 Gear. Motor Idler 268 4-E 44A11062W01 Gear. Reel Idler 269 1-G 42A10380W01 Belt. GR  270 3-A 01V33300W03 Assy GR Audio P.C. Board 271 3-E 41A30475W01 Spring. Clutch 272 3-F 04B41345P15 Washer. Lock(M1.2) 273 04B41345P02 Washer. Lock(M1.7) 274 3-H 04B41345P17 Washer. Lock(M1.7) 275 2-D 04B41345P32 Washer. Lock(M3.1) 276 3-B 04B41345P32 Washer. Lock(M3.1) 277 4-E 04B41345P37 Washer. Lock(M3.1) 278 2-A 30T15126W02 Wire. PC Joint 7P 279 2-D 03S44205G78 Screw. Pan(M2x6)  280 03S44205G30 Screw. Pan(M2x6)  281 4-D 03S72235F53 Screw. Pan(M2x3.3) 282 3-F 03A12132W02 Screw. Eject Clutch (M2x2.3) 283 03S43997P64 Screw. Pan(M1.7x3) 284 3-F 41A10385W01 Spring. Eject Clutch (M2x2.3) 285 3-E 41A10385W01 Spring. Cas. Push 286 2-C 41B10386W02 Spring. Sub Head 287 2-B 41A10387W01 Spring. Pinch Roller 288 3-D 43A12719W01 Spring. Pinch Roller 289 3-B 01B30863W01 Assy Pinch Roller	i			
266         3-E         44A10138W01         Gear. Reverse idler           267         3-E         44A10139W01         Gear. Motor Idler           268         4-E         44A11062W01         Gear. Reel Idler           269         1-G         42A10380W01         Belt. GR           270         3-A         01V33300W03         Assy GR Audio           271         3-E         41A30475W01         Spring. Clutch           272         3-F         04B41345P15         Washer. Lock(M1.2)           273         04B41345P02         Washer. Lock(M1.2)           274         3-H         04B41345P30         Washer. Lock(M1.7)           275         2-D         04B41345P32         Washer. Lock(M3.1)           276         3-B         04B41345P37         Washer. Lock(M3.1)           278         2-A         30T15126W02         Wire. PC Joint 7P           279         2-D         03S44205G30         Screw. Pan(M2x6)           280         03S44205G30         Screw. Pan(M2x6)           281         4-D         03S72235F53         Screw. Pan(M2x3.3)           282         3-F         41A10384W01         Spring. Eject Clutch           285         3-E         41A10385W01		.		
266         3-E         44A10138W01         Gear. Reverse idler           267         3-E         44A10139W01         Gear. Motor Idler           268         4-E         44A11062W01         Gear. Reel Idler           269         1-G         42A10380W01         Belt. GR           270         3-A         01V33300W03         Assy GR Audio           271         3-E         41A30475W01         Spring. Clutch           272         3-F         04B41345P15         Washer. Lock(M1.2)           273         04B41345P02         Washer. Lock(M1.7)           274         3-H         04B41345P30         Washer. Lock(M1.7)           275         2-D         04B41345P32         Washer. Lock(M3.1)           276         3-B         04B41345P37         Washer. Lock(M3.1)           278         2-A         30T15126W02         Wire. PC Joint 7P           279         2-D         03S44205G30         Screw. Pan(M2x6)           280         03S44205G30         Screw. Pan(M2x6)           281         4-D         03S72235F53         Screw. Pan(M2x3.3)           282         3-F         41A10384W01         Spring. Eject Clutch           285         3-E         41A10385W01	265	3-D	44410379901	Gear, Pause Idler(B)
267         3-E         44A10139W01         Gear. Motor Idler           268         4-E         44A11062W01         Gear. Reel Idler           269         1-G         42A10380W01         Belt. GR           270         3-A         01V33300W03         Assy GR Audio           271         3-E         41A30475W01         Spring. Clutch           272         3-F         04B41345P15         Washer. Lock(M1.2)           273         04B41345P02         Washer. Lock(M1.7)           274         3-H         04B41345P17         Washer. Lock(M3.1)           275         2-D         04B41345P30         Washer. Lock(M3.1)           276         3-B         04B41345P37         Washer. Lock(M3.1)           277         4-E         04B41345P37         Washer. Lock(M3.1)           278         2-A         30T15126W02         Wire. PC Joint 7P           279         2-D         03S44205G30         Screw. Pan(M2x6)           280         03S44205G30         Screw. Pan(M2x6)           281         4-D         03S7235F53         Screw. Pan(M1.7x3)           283         3-F         41A10385W01         Spring. Eject Clutch           285         3-E         41A10385W01         Sp	j		1	
268         4-E         44A11062W01         Gear. Reel !dler           269         1-G         42A10380W01         Gear. Reel !dler           270         3-A         01V33300W03         Assy GR Audio           271         3-E         41A30475W01         Spring. Clutch           272         3-F         04B41345P15         Washer. Lock (M1.2)           273         04B41345P02         Washer. Lock (M1.7)           274         3-H         04B41345P17         Washer. Lock (M1.7)           275         2-D         04B41345P30         Washer. Lock (M3.1)           276         3-B         04B41345P31         Washer. Lock (M2.1)           277         4-E         04B41345P37         Washer. Lock (M2.1)           278         2-A         30T15126W02         Wire. PC Joint 7P           279         2-D         03S44205G30         Screw. Pan(M2x6)           280         03S4205G30         Screw. Pan(M2x6)           281         4-D         03S7235F53         Screw. Pan(M2x3.3)           282         3-F         03A12132W02         Screw. Pan(M1.7x3)           283         3-F         41A10385W01         Spring. Cas. Push           286         2-C         41B10386W02		ł	1	
269		1	[	
270		1	1	
271   3-E   41A30475W01   Spring. Clutch	200	* *	12.110000#01	John Sin
271   3-E   41A30475W01   Spring. Clutch	270	3-A	01V33300W03	Assy., GR Audio
271   3-E   41A30475W01   Spring, Clutch				1
272   3-F   04841345P15   04841345P02   Washer. Lock(M1.2)   Washer. Lock(M1.7)   274   3-H   04841345P17   Washer. Lock(M1)   275   2-D   04841345P30   Washer. Lock(M3.1)   276   3-B   04841345P32   Washer. Lock(M3.1)   277   4-E   04841345P37   Washer. Lock(M2.1)   278   2-A   30T15126W02   Wire. PC Joint 7P   279   2-D   03S44205G78   Screw. Pan(M2x6)   280   03S44205G78   Screw. Pan(M2x3.3)   281   4-D   03S72235F53   Screw. Pan(M2x3.3)   282   3-F   03A12132W02   Screw. Eject Clutch   (M2x2.3)   Screw. Pan(M1.7x3)   Screw. Pan(M1.7x3)   Screw. Pan(M1.7x3)   Screw. Pan(M1.7x3)   Spring. Eject Clutch   285   3-E   41A10385W01   Spring. Cas. Push   286   2-C   41B10386W02   Spring. Sub Head   287   2-B   41A10387W01   Spring. Pinch Roller   288   3-D   43A12719W01   Roller. Pause   289   3-B   01B30863W01   Assy Pinch Roller   289   3-B   01B30863W01   Assy Pinch Roller   289   3-B   01B30863W01   Assy Pinch Roller   289   3-B   01B30863W01   Assy Pinch Roller   289   3-B   01B30863W01   Assy Pinch Roller   289   3-B   01B30863W01   Assy Pinch Roller   280   2	271	3-E	41A30475W01	į.
273	1			· · · · ·
274	273		1	
275   2-D   04B41345P30   Washer, Lock(M3.1)	274	3-11	04B41345P17	Washer, Lock (Mi)
276         3-B         04B41345P32         Washer. Lock(M3.1)           277         4-E         04B41345P37         Washer. Lock(M2.1)           278         2-A         30T15126W02         Wire. PC Joint 7P           279         2-D         03S44205G30         Screw. Pan(M2.6x4)           281         4-D         03S72235F53         Screw. Pan(M2.6x4)           282         3-F         03A12132W02         Screw. Pan(M2.3.3)           283         03S43997P64         Screw. Eject Clutch           284         3-F         41A10384W01         Spring. Eject Clutch           285         3-E         41A10385W01         Spring. Cas. Push           286         2-C         41B10386W02         Spring. Sub Head           287         2-B         41A10387W01         Spring. Pinch Roller           288         3-D         43A12719W01         Roller. Pause           289         3-B         01B30863W01         Assy Pinch Roller				
276         3-B         04B41345P32         Washer. Lock(M3.1)           277         4-E         04B41345P37         Washer. Lock(M2.1)           278         2-A         30T15126W02         Wire. PC Joint 7P           279         2-D         03S44205G30         Screw. Pan(M2.6x4)           281         4-D         03S72235F53         Screw. Pan(M2.6x4)           282         3-F         03A12132W02         Screw. Pan(M2.3.3)           283         03S43997P64         Screw. Eject Clutch           284         3-F         41A10384W01         Spring. Eject Clutch           285         3-E         41A10385W01         Spring. Cas. Push           286         2-C         41B10386W02         Spring. Sub Head           287         2-B         41A10387W01         Spring. Pinch Roller           288         3-D         43A12719W01         Roller. Pause           289         3-B         01B30863W01         Assy Pinch Roller	275	2-D	04B41345P30	Washer, Lock(M3.1)
277         4-E         04B41345P37         Washer. Lock (M2.1)           278         2-A         30T15126W02         Wire. PC Joint 7P           279         2-D         03S44205G30         Screw. Pan (M2.6x4)           280         03S72235F53         Screw. Pan (M2.3.3)           282         3-F         03A12132W02         Screw. Eject Clutch (M2x2.3)           283         03S43997P64         Screw. Pan (M1.7x3)           284         3-F         41A10384W01         Spring. Eject Clutch           285         3-E         41A10385W01         Spring. Cas. Push           286         2-C         41B10386W02         Spring. Sub Head           287         2-B         41A10387W01         Spring. Pinch Roller           288         3-D         43A12719W01         Roller. Pause           289         3-B         01B30863W01         Assy Pinch Roller	276	3-B	l	I .
278	277	1	l	1
279   2-D   03S44205G78   Screw. Pan(M2x6)	278	2-A	i	ł.
280 281 4-D 281 3-F 03872235F53 Screw. Pan(M2.6x4) 282 3-F 03A12132W02 Screw. Eject Clutch (M2x2.3) 283 284 3-F 41A10384W01 Spring. Eject Clutch 285 3-E 41A10385W01 Spring. Cas. Push 286 2-C 41B10386W02 Spring. Sub Head 287 2-B 41A10387W01 Spring. Pinch Roller 288 3-D 43A12719W01 Roller. Pause 289 3-B 01B30863W01 Assy Pinch Roller	279	I	i	]
281 4-D 03S72235F53 Screw. Pan(M2x3.3) 282 3-F 03A12132W02 Screw. Eject Clutch (M2x2.3) 283 03S43997P64 Screw. Pan(M1.7x3) 284 3-F 41A10384W01 Spring. Eject Clutch 285 3-E 41A10385W01 Spring. Cas. Push 286 2-C 41B10386W02 Spring. Sub Head 287 2-B 41A10387W01 Spring. Pinch Roller 288 3-D 43A12719W01 Roller. Pause 289 3-B 01B30863W01 Assy Pinch Roller				
282   3-F   03A12132W02   Screw. Eject Clutch (M2x2.3)   283   03S43997P64   Screw. Pan(M1.7x3)   284   3-F   41A10384W01   Spring. Eject Clutch   285   3-E   41A10385W01   Spring. Cas. Push   286   2-C   41B10386W02   Spring. Sub Head   287   2-B   41A10387W01   Spring. Pinch Roller   288   3-D   43A12719W01   Roller. Pause   289   3-B   01B30863W01   Assy Pinch Roller	280		03S44205G30	Screw. Pan(M2.6x4)
283   03S43997P64   Screw. Pan(Mi.7x3)   Screw. Pan(Mi.7x3)   Spring. Eject Clutch   285	281	4-D	03S72235F53	Screw. Pan(M2x3.3)
283   03S43997P64   Screw. Pan(M1.7x3)   284   3-F   41A10384W01   Spring. Eject Clutch    285   3-E   41A10385W01   Spring. Cas. Push   286   2-C   41B10386W02   Spring. Sub Head   287   2-B   41A10387W01   Spring. Pinch Roller   288   3-D   43A12719W01   Roller. Pause   289   3-B   01B30863W01   Assy Pinch Roller	282	3-F	03A12132W02	Screw. Eject Clutch
284 3-F 41A10384W01 Spring. Eject Clutch  285 3-E 41A10385W01 Spring. Cas. Push 286 2-C 41B10386W02 Spring. Sub Head 287 2-B 41A10387W01 Spring. Pinch Roller 288 3-D 43A12719W01 Roller. Pause 289 3-B 01B30863W01 Assy Pinch Roller				(M2x2.3)
285	283		03S43997P64	Screw. Pan(M1.7x3)
286 2-C 41B10386W02 Spring. Sub Head 287 2-B 41A10387W01 Spring. Pinch Roller 288 3-D 43A12719W01 Roller. Pause 289 3-B 01B30863W01 Assy Pinch Roller	284	3-F	41A10384W01	Spring. Eject Clutch
286 2-C 41B10386W02 Spring. Sub Head 287 2-B 41A10387W01 Spring. Pinch Roller 288 3-D 43A12719W01 Roller. Pause 289 3-B 01B30863W01 Assy Pinch Roller				
287 2-B 41A10387W01 Spring, Pinch Roller 288 3-D 43A12719W01 Roller, Pause 289 3-B 01B30863W01 Assy., Pinch Roller	285	3-E	41A10385W01	Spring. Cas. Push
288 3-D 43A12719W01 Roller Pause 289 3-B 01B30863W01 Assy. Pinch Roller	286	2-C	41B10386W02	Spring. Sub Head
289 3-B 01B30863W01 Assy., Pinch Roller	287	2-B	41A10387W01	Spring. Pinch Roller
	288	3-D	43A12719W01	Roller, Pause
	289	3-B	01B30863W01	Assy., Pinch Roller
290   2-B   84T35271W01   Head P.C. Board				
	290	2-B	84T35271W01	Head P.C. Board

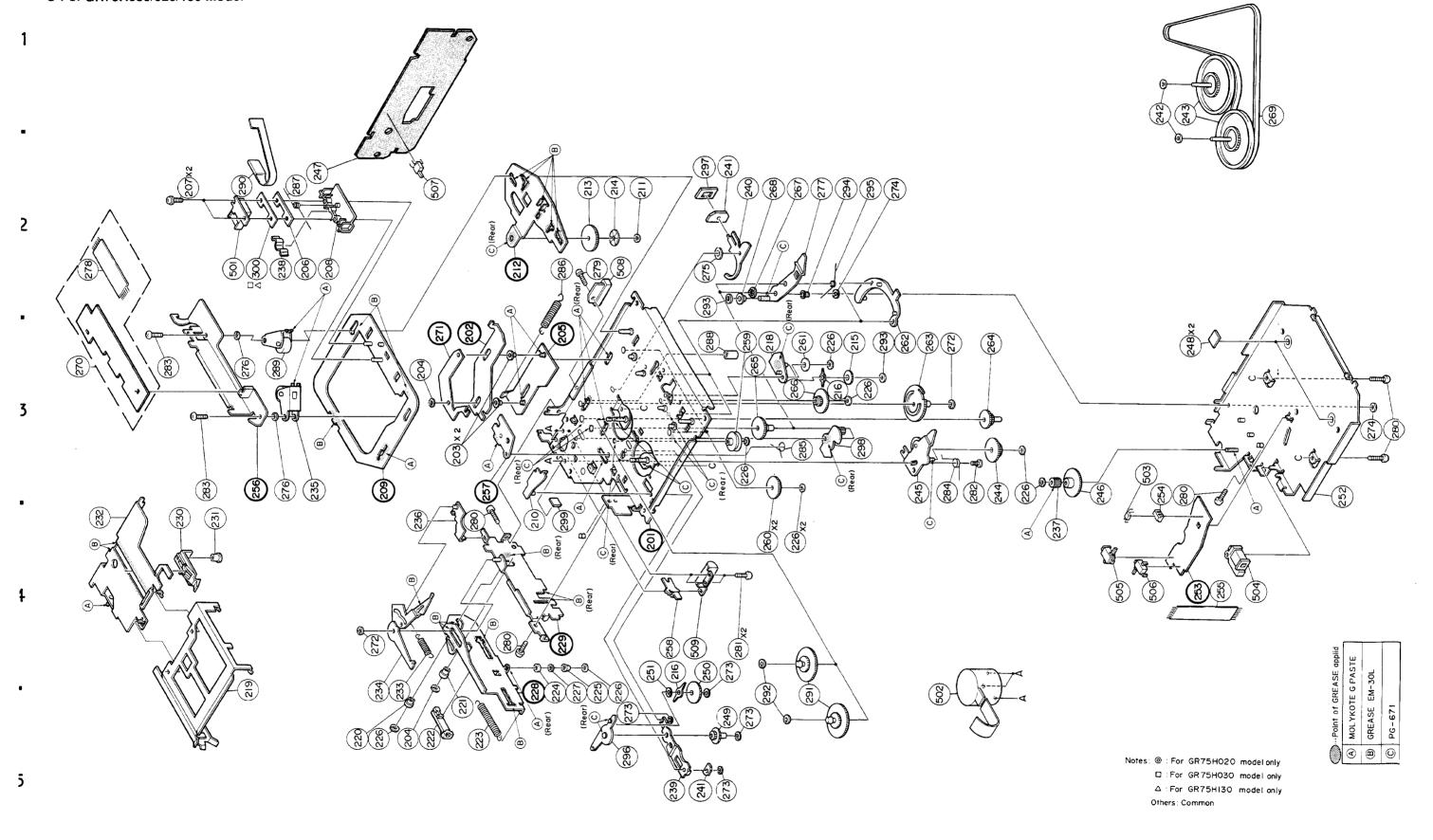
Symbol No.	1N- dex	Part No.	Description
291	4-E	01T35403W02	Assy., Reel
292	4-E	04B41345P12	Washer, Lock(M1.7)
293	4-D	01A30161W01	Assy. Riv Lever
255	1 4 0	OINSUIGINGI	Take Up
204		04041045004	··· •
294	3-F	04B41345P34	Washer, Lock (M1.2)
295	2-B	26A20537W01	Shield, Plate
296	4-D	41A40910W01	Spring. Clutch
297			Washer, Som (M1.2)
-	4-F	43A41543W01	
298	3-E	47A41458W01	Pin. Take Up
299	3-C	43A40388W01	Spacer. Polyslider
300	2-D	43A41744W01	Lock. Solenoid
301	2-B	41A41416W01	Spring, Head
and the second s			
		Misc	ellaneous
501	2-B	88T15971W01	Head
☆ 502	4-E	01V23900W60	Assy., Motor(13.2V-105mA)
♦ 502	4-E	01V44200W73	Assy., Motor(13.2V-80mA)
503	3-G	51T15144W01	Sensor, Photo
504	4-G	01T10371W01	R/F Sol. Assy
***			,,, corr
505	4-F	40T15382W01	SW., Detector (Pack Down)
506	4-G	40T15382W01	SW., Detector (Metal)
507	2-C	40T15222W01	SW. Detector (Pack In)
508	2-D	01T15249W01	Assy., Play Solenoid
509	4-D	01T10369W02	Assy., Eject Solenoid
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Notes:☆; For CR75L02Y model only ◇; For CR75L52Y model only

Others ; Common

# Exploded View (GR75H Series) (4/4)

● For GR75H030/020/130 Model



- 29 --4 A I B I C I D I E I F I G

# Cassette Deck Assembly Parts List (GR75H Series) (4/4)

Sy	mbol	IN-	Part No.	Description
<u> </u>	No.	dex	40401450001	D-11 O.b. 11
1	203	3-C	43A31453W01	Roller, Sub Head
1	204		04B41345P01	Washer, Lock(M1.2)
	206	2-B	41A31756W01	Spring, Head
İ	207	2-A	03A38021W01	Screw. Flange(M2x4)
	208	2-B	43B12545W01	Tape, Guide
	210	4-C	01A30462W01	Assy Riv Lever R/F Sol
1	211	2-D	04B41345P29	Washer, Lock (M2.6)
	213	2-D	44A10295W01	Gear, Sensor
	214	2-D	14A10681W01	Reflector
	215	3-E	44A30480W01	Gear, Planet
		0 2	44/100400#01	ocar, Tranct
	216		41A30475W01	Spring. Clutch
	1	2 5		·
	218	3-E	01A30824W01	Assy., Riv Lever Reverse
	219	4-B	07B40283W01	Holder, Cassette
	219	4-B	07B40283W01	Holder, Cassette
	219	4-B	07B40012W01	Holder, Cassette
1		_		
	220		43A12583W01	Roller, Eject
	221	5-C	43A63281F01	Roller, Plate Base
	222	5-C	44A82206F01	Rack
0	223	5-C	41B10386W03	Spring. GR(Rack)
	223	5-C	41B10386W03	Spring. GR(Rack)
	223	5-C	41B10386W04	Spring. GR(Rack)
	224	5-C	43A10121W01	Roller, Eject A
	225	5-D	43A10360W01	Roller. Eject B
	226	• •	04B41345P11	Washer, Lock(M1.2)
	227	5-D	43/12377#01	Roller Eject C
	221		45/125//#01	Roller, Eject C
	230	4-A	45D10276W01	Slider
1		i	45B10376W01	
	231	4-B	47A63278F01	Shaft, Slider
0		4-A	01A10212W01	Assy., Riv Plate Base
	232	4-A	01A10212W01	Assy Riv Plate Base
	232	4-A	01A40024W01	Assy Riv Plate Base
0	233	5 <b>-</b> C	41B10386W01	Spring, Eject Arm
	233	5-C	41B10386W01	Spring, Eject Arm
	233	5 <b>-</b> C	41B63283F11	Spring
0	234	5-C	01A30883W01	Assy., Riv Eject Arm B
	234	5-C	01A30883W01	Assy., Riv Eject Arm B
Δ	234	5-C	01A40021W01	Assy., Riv Eject Arm D
	235	3-B	01B30863W02	Assy., Pinch Roller
	236		45A10087W01	Lever Pack In SW
			44A20314W01	Pinion, Eject
	238	2-B	26A20537W01	Shield, plate
	,			January Flato
	239	5-D	01A40881W01	Assy Riv RF Link
	240	_		
		2-D	45A40725W01	Lever, Play Sol.
	241	, _	76T10374W01	Chip
	242	1-G	04S40075G05	Washer, Polyslider(M2.1)
	243	1-G	01A30488W01	Assy Flywheel
	.			

No.   dex	Note: The parts without parts list are not supplied						
244   3-F	Sy			Part No.	Description		
245 3-E 01A10205V02 Assy Riv Lever Clutch A Gear. Eject A4A10145V01 Assy GR Control P.C. Board P.C. Board P.C. Board P.C. Board P.C. Board Spacer. UHMN  249 5-D 44A30483W01 251 4-D 04540075C58 Assy Riv. Cover Bottom Guide. Photo  255 4-G 30T15126W01 Wire. PC Sensor(7P) Lever. Eject Sol 4-B 44A30478W01 261 3-E 44A30478W01 263 3-E 44B30484W01 265 3-E 44A30478W01 266 3-E 44A30478W01 266 3-E 44A30478W01 266 3-E 44A30478W01 267 270 3-A 01V33300W03 Assy Riv. Cover Bottom Gear. Pause Idler A Gear. Pause Idler Bear. Pause Idler A Gear. Pause Idler Bear. Pause Idler A Gear. Pause Idler Bear. Pause Idler A Gear. Pause Idler Bear. Pause Idler A Gear. Pause Idler Bear. Pause Idler Bear. Pause Idler Bear. Pause Idler A Gear. Pause Idler A Gear. Pause Idler Bear. Pause Idler A Gear. Pause Idler A Gear. Pause Idler Bear. Pause Idler A Gear. Pause Idler A Gear. Pause Idler Bear. Pause Idler A Gear. Pause Idler Bear. Pause Idler A Gear. Pause Idler Bear. Pause Idler A Gear. Pause Idler A Gear. Pause Idler Bear. Pause Idler A Gear. Pause Idler A Gear. Pause Idler Bear. Pause Idler Bear. Pause Idler Bear. Pause Idler Bear. Pause Idler A Gear. Pause Idler Bear. Pause Idler A Gear. Pause Idler A Gear. Pause Idler A Gear. Pause Idler Bear. Pause Idler A Gear. Pause Idler Bear. Pause Idler Bear. Pause Idler Bear. Pause Idler Bear. Pause Idler A Gear. Pause Idler Bear. Pause Idler Bear. Pause Idler Bear. Pause Idler Bear. Pause Idler Bear. Pause Idler Bear. Pause Idler Bear. Pause Idler Bear. Pause Idler A Gear. Pause Idler Bear. Pause Idler Bear. Pause Idler Bear. Pause Idler Bear. Pause Idler Bear. Pause Idler Bear. Pause Idler Bear. Pause Idler Bear. Pause Idler Bear. Pause Idler Bear. P	<b>-</b>		+	44A10141W01	Gear, Eject Idler		
246			3-E	1	· ·		
246         3-F         44A10145V01         Cear. Eject           247         2-B         01V33500W45         Assy. GR Control           248         3-G         43A41656W01         Spacer. UHMW           249         5-D         44A30481W01         Cear. RF Idler           250         4-D         44A30483W01         Cear. RF           251         4-D         04540075C58         Washer. Polyslider(W2.1)           253         3-H         01A30463W01         Assy. Riv. Cover Bottom           255         4-G         30T15126W01         Wire. PC Sensor(TP)           258         4-D         45A10101W01         Lever. Eject Sol           260         4-E         44A30482W01         Gear. Take Up           261         3-E         44B10135W01         Gear. Pause           262         3-E         44B30484W01         Gear. Pause Idler           263         3-E         44A30485W01         Gear. Pause Idler           2667         2-E         44A30485W01         Gear. Motor Clutch           268         2-E         44A30485W01         Gear. Motor Clutch           268         2-E         44A30485W01         Gear. Motor Clutch           269         3-A					1		
247 2-B 01V33500W45  248 3-C 43A41656W01  249 5-D 44A3048IW01  250 4-D 44A3048SW01  251 4-D 04S40075C58  252 3-H 01A3046SW01  254 3-C 15B11065W01  255 4-D 45A1010IW01  258 4-D 45A1010IW01  259 3-D 49A30476W01  261 3-E 44A3048ZW01  262 3-E 44B10135W01  263 3-E 44B10135W01  264 3-F 44A3048SW01  265 3-E 44A3048SW01  266 3-E 44A3048SW01  267 2-E 44A3048SW01  268 2-E 44A3048SW01  269 1-C 2-E 44A3048SW01  269 1-C 42A31850W01  269 1-C 42A31850W01  260 270 3-A 01V33300W03  272 3-F 04B41345P15  273 3-F 04B41345P17  274 3-H 04B41345P17  275 2-D 04B41345P32  276 3-B 04B41345P32  277 2-E 01A3046W01  278 2-A 30T15126W02  279 2-D 03S44205C78  280 03S72235F53  282 3-F 03A12132W02  283 3-E 41A1038SW01  286 2-C 41B1038SW01  287 2-R 03S1232W02  283 3-F 03A12132W02  284 3-F 03A12132W02  285 3-E 41A1038SW01  286 2-C 41B10386W02  287 9-R 04W1  287 9-R 04W1  288 9-F 03A12132W02  288 03S43997P64  286 2-C 41B10386W02  287 Pains Piay Clutch  287 2-R 03A12132W02  288 03S43997P64  286 2-C 41B10386W02  287 Spring. Cas Push		246	3-F	44A10145W01			
248   3-G			ì	1			
248 3-G 43441656W01 Spacer. UHMW  249 5-D 44A30481W01 250 4-D 04A30483W01 Gear. RF Idler 251 4-D 04S40075C58 252 3-H 01A30463W01 254 3-C 15B11065W01 Guide. Photo  255 4-C 30T15126W01 Vire. PC Sensor(TP) 258 4-D 45A10101W01 259 3-D 49A30476W01 260 4-E 44A30482W01 261 3-E 44A30482W01 262 3-E 44B10135W01 Gear. Take Up 263 3-E 44B10135W01 Gear. Pause 264 3-F 44A10137W01 Gear. Pause Idler A 265 3-E 44A30468W01 266 3-E 44A30479W01 Gear. Pause Idler B 267 2-E 44A30487W01 Gear. Pause Idler B 268 2-E 44A30479W01 Gear. Reverse Idler  267 2-E 44A30487W01 Gear. Motor Idler 268 2-E 44A30487W01 Gear. Motor Clutch 269 1-C 42A31850W1 Belt. CR 270 3-A 01V33300W03 Assy CR Audio P.C. Board 271 3-A 01V33300W03 Assy CR Audio P.C. Board 272 3-F 04B41345P02 Washer. Lock(M1.2) 274 3-H 04B41345P17 Washer. Lock(M1.7) 275 2-D 04B41345P02 Washer. Lock(M1.7) 275 2-D 04B41345P02 Washer. Lock(M3.1) 276 3-B 04B41345P03 Washer. Lock(M3.1) 277 2-E 01A30464W01 Washer. Lock(M3.1) 278 2-A 30T15126W02 Wire. PC Joint 7P 279 2-D 03S44205C30 Screw. Pan(M2x6) 280 03S43997P64 Screw. Pan(M2x8.3) 281 4-D 03S72235F53 Screw. Pan(M2x8.3) 282 3-F 03A12132W02 Spring. Eject Clutch (Mx2.3) 283 03S43997P64 Spring. Eject Clutch 285 3-E 41B10386W02 Spring. Sub Head				01,00000#10			
249 5-D 44A30481W01		248	3-G	43441656W01			
250   4-D   44A30483W01   251   4-D   04S40075C58   252   3-H   01A30463W01   254   3-G   15B11065W01   Cuide. Photo		240		40041000#01	Opacet Folima		
250   4-D   44A30483W01   251   4-D   04S40075C58   252   3-H   01A30463W01   254   3-G   15B11065W01   Cuide. Photo		249	5-1)	444304811401	Coar PF Idlor		
251			1	i			
252   3-H   01A30463W01   Assy Riv. Cover Bottom   Cuide. Photo		i					
254   3-C   15B11065W01   Cuide. Photo		ĺ		i			
255 4-C 30T15126W01 Wire. PC Sensor(7P) 258 4-D 45A10101W01 259 3-D 49A30476W01 Pulley. Idler 260 4-E 44A30482W01 Gear. Take Up 261 3-E 44B10135W01 Gear. Fix 262 3-E 44B10135W01 Gear. Fix 263 3-E 44B30484W01 264 3-F 44A10137W01 Gear. Pause Idler A 265 3-E 44A30479W01 Gear. Pause Idler B 266 3-E 44A30479W01 Gear. Reverse Idler 267 2-E 44A30485W01 Gear. Motor Idler 268 2-E 44A30487W01 Gear. Motor Clutch 269 1-G 42A31850W01 Belt. GR 270 3-A 01V43400W38 Assy GR Audio P.C. Board 270 3-A 01V33300W03 Assy GR Audio P.C. Board 272 3-F 04B41345P15 Washer. Lock(M1.2) 273 04B41345P02 Washer. Lock(M1.7) 274 3-H 04B41345P17 Washer. Lock(M1.7) 275 2-D 04B41345P30 Washer. Lock(M1.1) 276 3-B 04B41345P30 Washer. Lock(M3.1) 277 2-E 01A30464W01 Assy Riv Play Clutch 278 2-A 30T15126W02 Wire. PC Joint 7P 279 2-D 03S44205G78 Screv. Pan(M2x6) 280 03S43997P64 Screv. Pan(M2x3.3) 281 4-D 03S72235F53 Screv. Pan(M2x6.) 283 3-E 41A10385W01 Spring. Cas Push 286 2-C 41B10386W02 Spring. Sub Head		I			I .		
258 4-D 45A10101W01 Lever. Eject Sol 259 3-D 49A30476W01 Pulley. Idler 260 4-E 44A30482W01 Gear. Take Up 261 3-E 44B10135W01 Gear. Sun  262 3-E 44B10135W01 Gear. Pause 263 3-E 44B30484W01 Gear. Pause Idler A 265 3-E 44A30486W01 Gear. Pause Idler B 266 3-E 44A30485W01 Gear. Reverse Idler  267 2-E 44A30485W01 Gear. Motor Idler 268 2-E 44A30487W01 Gear. Motor Clutch 269 1-G 42A31850W01 Belt. GR 270 3-A 01V43400W38 Assy GR Audio P.C. Board  270 3-A 01V43400W38 Assy GR Audio P.C. Board  270 3-A 01V33300W03 Assy GR Audio P.C. Board  271 3-H 04B41345P15 Washer. Lock (M1.2) 273 04B41345P02 Washer. Lock (M1.7) 274 3-H 04B41345P17 Washer. Lock (M3.1)  276 3-B 04B41345P32 Washer. Lock (M3.1) 277 2-E 01A30464W01 Assy Riv Play Clutch 278 2-A 30T15126W02 Wire. PC Joint 7P 279 2-D 03S44205C38 Screw. Pan (M2x6) 280 03S44205C30 Screw. Pan (M2x6) 281 4-D 03S72235F53 Screw. Pan (M2x6) 282 3-F 03A12132W02 Screw. Pan (M2x3.3) 282 3-F 03A12132W02 Screw. Pan (M2x3.3) 283 03S43997P64 Screw. Pan (M2x3.3) 284 3-F 41A10385W01 Spring. Cas Push 286 2-C 41B10386W02 Spring. Sub Head		234	3-4	IOPITODOMOI	Guide. Photo		
258 4-D 45A10101W01 Lever. Eject Sol 259 3-D 49A30476W01 Pulley. Idler 260 4-E 44A30482W01 Gear. Take Up 261 3-E 44B10135W01 Gear. Sun  262 3-E 44B10135W01 Gear. Pause 263 3-E 44B30484W01 Gear. Pause Idler A 265 3-E 44A30486W01 Gear. Pause Idler B 266 3-E 44A30485W01 Gear. Reverse Idler  267 2-E 44A30485W01 Gear. Motor Idler 268 2-E 44A30487W01 Gear. Motor Clutch 269 1-G 42A31850W01 Belt. GR 270 3-A 01V43400W38 Assy GR Audio P.C. Board  270 3-A 01V43400W38 Assy GR Audio P.C. Board  270 3-A 01V33300W03 Assy GR Audio P.C. Board  271 3-H 04B41345P15 Washer. Lock (M1.2) 273 04B41345P02 Washer. Lock (M1.7) 274 3-H 04B41345P17 Washer. Lock (M3.1)  276 3-B 04B41345P32 Washer. Lock (M3.1) 277 2-E 01A30464W01 Assy Riv Play Clutch 278 2-A 30T15126W02 Wire. PC Joint 7P 279 2-D 03S44205C38 Screw. Pan (M2x6) 280 03S44205C30 Screw. Pan (M2x6) 281 4-D 03S72235F53 Screw. Pan (M2x6) 282 3-F 03A12132W02 Screw. Pan (M2x3.3) 282 3-F 03A12132W02 Screw. Pan (M2x3.3) 283 03S43997P64 Screw. Pan (M2x3.3) 284 3-F 41A10385W01 Spring. Cas Push 286 2-C 41B10386W02 Spring. Sub Head		255	4-G	30T15126W01	Wire, PC Sensor(7P)		
259 3-D 49A30476W01 Pulley, Idler 260 4-E 44A30482W01 Gear. Take Up 261 3-E 44B10135W01 Gear. Sun  262 3-E 44B10135W01 Gear. Pause 263 3-E 44B30484W01 Gear. Pause Idler A 265 3-E 44A30466W01 Gear. Pause Idler B 266 3-E 44A30479W01 Gear. Motor Idler 267 2-E 44A30485W01 Gear. Motor Clutch 268 2-E 44A30487W01 Gear. Motor Clutch 269 1-G 42A31850W01 Belt. GR 270 3-A 01V33300W03 Assy GR Audio P.C. Board  270 3-A 01V33300W03 Assy GR Audio P.C. Board 272 3-F 04B41345P15 Washer. Lock (M1.2) 273 04B41345P02 Washer. Lock (M1.7) 274 3-H 04B41345P17 Washer. Lock (M1.7) 275 2-D 04B41345P30 Washer. Lock (M3.1)  276 3-B 04B41345P30 Washer. Lock (M3.1) 277 2-E 01A30464W01 Assy Riv Play Clutch 278 2-A 30T15126W02 Wire. PC Joint 7P 279 2-D 03S44205C78 Screw. Pan (M2x6) 280 03S43997P64 Screw. Pan (M2x3.3) 281 4-D 03S72235F53 Screw. Pan (M2x6.) 282 3-F 03A12132W02 Screw. Pan (M2x6.) 283 03S43997P64 41A10385W01 Spring. Eject Clutch (Mx.2.3) 284 3-F 41A10385W01 Spring. Cas Push 286 2-C 41B10386W02 Spring. Sub Head		258		1	• '		
260		1			1		
261 3-E 44A30478W01 Gear. Sun  262 3-E 44B10135W01 Gear. Fix  263 3-E 44B30484W01 Gear. Pause 264 3-F 44A10137W01 Gear. Pause Idler A  265 3-E 44A30486W01 Gear. Pause Idler B  266 3-E 44A30485W01 Gear. Pause Idler  267 2-E 44A30485W01 Gear. Pause Idler  268 2-E 44A30487W01 Gear. Motor Idler  269 1-G 42A31850W01 Belt. GR  270 3-A 01V43400W38 Assy. GR Audio P.C. Board  Assy. GR Audio P.C. Board  △ 270 3-A 01V33300W03 Assy. GR Audio P.C. Board  △ 270 3-A 04B41345P15 Washer. Lock(M1.2)  273 04B41345P02 Washer. Lock(M1.7)  275 2-D 04B41345P30 Washer. Lock(M3.1)  276 3-B 04B41345P32 Washer. Lock(M3.1)  277 2-E 01A30464W01 Assy. Riv Play Clutch  278 2-A 30T15126W02 Wire. PC Joint 7P  279 2-D 03S44205G30 Screw. Pan(M2.6x4)  281 4-D 03S72235F53 Screw. Pan(M2.6x4)  281 4-D 03S72235F53 Screw. Pan(M2.6x4)  282 3-F 03A12132W02 Screw. Pan(M2.3.3)  283 03S43997P64 Screw. Pan(M1.7x3)  284 3-F 41A10384W01 Spring. Eject Clutch (Mx≥.3)  285 3-E 41A10385W01 Spring. Cas Push			1				
262 3-E 44B10135W01 Cear. Fix 263 3-E 44B30484W01 Cear. Pause 264 3-F 44A10137W01 Cear. Pause Idler A 265 3-E 44A30486W01 Cear. Pause Idler B 266 3-E 44A30485W01 Cear. Pause Idler B 267 2-E 44A30485W01 Cear. Reverse Idler  268 2-E 44A30487W01 Cear. Motor Idler 269 1-G 42A31850W01 Belt. GR 270 3-A 01V43400W38 Assy GR Audio P.C. Board 270 3-A 01V33300W03 Assy GR Audio P.C. Board 272 3-F 04B41345P15 Washer. Lock(M1.2) 273 04B41345P02 Washer. Lock(M1.7) 274 3-H 04B41345P30 Washer. Lock(M1.7) 275 2-D 04B41345P30 Washer. Lock(M3.1)  276 3-B 04B41345P32 Washer. Lock(M3.1) 277 2-E 01A30464W01 Assy Riv Play Clutch 278 2-A 30T15126W02 Wire. PC Joint 7P 279 2-D 03S44205G78 Screw. Pan(M2x6) 280 03S44205G30 Screw. Pan(M2x3.3) 283 03S43997P64 Screw. Pan(M2x3.3) 284 3-F 14A10384W01 Spring. Eject Clutch (Mx2.3) 285 3-E 41B10386W02 Spring. Sub Head			1				
263 3-E 44B30484W01 Cear. Pause 264 3-F 44A10137W01 Cear. Pause Idler A 265 3-E 44A30486W01 266 3-E 44A30479W01 Cear. Pause Idler B 267 2-E 44A30485W01 Cear. Reverse Idler  268 2-E 44A30487W01 Cear. Motor Clutch 269 1-G 42A31850W01 Belt. GR 270 3-A 01V43400W38 Assy. GR Audio P.C. Board 270 3-A 01V33300W03 Assy. GR Audio P.C. Board 272 3-F 04B41345P15 Washer. Lock(M1.2) 273 04B41345P02 Washer. Lock(M1.7) 274 3-H 04B41345P17 Washer. Lock(M1.7) 275 2-D 04B41345P30 Washer. Lock(M3.1)  276 3-B 04B41345P30 Washer. Lock(M3.1) 277 2-E 01A30464W01 Assy. Riv Play Clutch 278 2-A 30T15126W02 Wire. PC Joint 7P 279 2-D 03S44205G78 Screw. Pan(M2x8.3) 280 03S43997P64 Screw. Pan(M2x8.3) 281 4-D 03S72235F53 Screw. Pan(M2x8.3) 282 3-F 03A12132W02 Screw. Pan(M2x8.3) 283 03S43997P64 Screw. Pan(M1.7x3) 284 3-F 41A10386W02 Spring. Sub Head		201	"	44/1004/0401	dear sum		
263   3-E   44B30484W01   Gear. Pause   Gear. Pause   Gear. Pause   Idler A		262	3-E	44B10135W01	Gear, Fix		
264 3-F 44A10137W01 Gear. Pause Idier A 265 3-E 44A30486W01 Gear. Pause Idier B 266 3-E 44A30479W01 Gear. Reverse Idler  267 2-E 44A30487W01 Gear. Motor Idler 268 2-E 44A30487W01 Gear. Motor Clutch 269 1-G 42A31850W01 Belt. GR 270 3-A 01V43400W38 Assy. GR Audio P.C. Board 270 3-A 01V33300W03 Assy. GR Audio P.C. Board 272 3-F 04B41345P15 Washer. Lock(M1.2) 273 04B41345P02 Washer. Lock(M1.7) 274 3-H 04B41345P17 Washer. Lock(M1.7) 275 2-D 04B41345P30 Washer. Lock(M3.1)  276 3-B 04B41345P30 Washer. Lock(M3.1) 277 2-E 01A30464W01 Assy. Riv Play Clutch 278 2-A 30T15126W02 Wire. PC Joint 7P 279 2-D 03S44205G78 Screw. Pan(M2x6) 280 03S43997P64 Screw. Pan(M2x3.3) 282 3-F 03A12132W02 Screw. Pan(M2.6x4)  281 4-D 03S72235F53 Screw. Pan(M2x3.3) 282 3-F 03A12132W02 Screw. Pan(M1.7x3) 283 03S43997P64 Screw. Pan(M1.7x3) 284 3-F 41A10386W02 Spring. Sub Head		263	3-E		Gear, Pause		
265 3-E 44A30486W01 Gear. Pause Idler B 266 3-E 44A30479W01 Gear. Reverse Idler  267 2-E 44A30487W01 Gear. Motor Idler 268 2-E 44A30487W01 Gear. Motor Clutch 269 1-G 42A31850W01 Belt. GR  270 3-A 01V33300W03 Assy. GR Audio P.C. Board  270 3-A 01V33300W03 Assy. GR Audio P.C. Board  272 3-F 04B41345P15 Washer. Lock(M1.2) 273 04B41345P02 Washer. Lock(M1.7) 274 3-H 04B41345P17 Washer. Lock(M1.7) 275 2-D 04B41345P30 Washer. Lock(M3.1)  276 3-B 04B41345P32 Washer. Lock(M3.1)  277 2-E 01A30464W01 Assy. Riv Play Clutch 278 2-A 30T15126W02 Wire. PC Joint 7P 279 2-D 03S44205G78 Screw. Pan(M2x6) 280 03S44205G30 Screw. Pan(M2x6) 281 4-D 03S72235F53 Screw. Pan(M2x6) 282 3-F 03A12132W02 Screw. Pan(M2x3.3) 282 3-F 41A10384W01 Spring. Eject Clutch(Mx 2.3) 284 3-F 41A10385W01 Spring. Cas Push  286 2-C 41B10386W02 Spring. Sub Head		264	į.				
266 3-E 44A30479W01 Cear. Reverse Idler  267 2-E 44A30485W01 Cear. Motor Idler 268 2-E 44A30487W01 Gear. Motor Clutch 269 1-G 42A31850W01 Belt. GR  270 3-A 01V43400W38 Assy. GR Audio P.C. Board  270 3-A 01V33300W03 Assy. GR Audio P.C. Board  272 3-F 04B41345P15 Washer. Lock(M1.2) 273 04B41345P02 Washer. Lock(M1.7) 274 3-H 04B41345P17 Washer. Lock(M1.7) 275 2-D 04B41345P30 Washer. Lock(M3.1)  276 3-B 04B41345P32 Washer. Lock(M3.1)  277 2-E 01A30464W01 Assy. Riv Play Clutch 278 2-A 30T15126W02 Wire. PC Joint 7P 279 2-D 03S44205G78 Screw. Pan(M2x6) 280 03S44205G30 Screw. Pan(M2x6) 281 4-D 03S72235F53 Screw. Pan(M2x6) 282 3-F 03A12132W02 Screw. Eject Clutch(Mx ≥ .3) 283 03S43997P64 Screw. Pan(M1.7x3) 284 3-F 41A10384W01 Spring. Eject Clutch 285 3-E 41A10385W02 Spring. Sub Head			į.				
267 2-E 44A30485W01 Gear. Motor Idler 268 2-E 44A30487W01 Gear. Motor Clutch 269 1-G 42A31850W01 Belt. GR  270 3-A 01V33300W03 Assy GR Audio P.C. Board  270 3-A 01V33300W03 Assy GR Audio P.C. Board  272 3-F 04B41345P15 Washer. Lock(M1.2) 273 04B41345P02 Washer. Lock(M1.7) 274 3-H 04B41345P30 Washer. Lock(M3.1)  276 3-B 04B41345P30 Washer. Lock(M3.1)  277 2-E 01A30464W01 Assy Riv Play Clutch 278 2-A 30T15126W02 Wire. PC Joint 7P 279 2-D 03S44205G78 Screw. Pan(M2x6) 280 03S44205G30 Screw. Pan(M2.6x4)  281 4-D 03S72235F53 Screw. Pan(M2.6x4)  282 3-F 03A12132W02 Screw. Pan(M2.6x4)  283 03S43997P64 Screw. Pan(M1.7x3) 284 3-F 41A10384W01 Spring. Eject Clutch 285 3-E 41A10385W02 Spring. Sub Head	•		_				
268			" "		Total v moverse refer		
269		267	2-E	44A30485W01	Gear. Motor Idler		
© 270       3-A       01V43400W38 01V33300W03       Assy CR Audio P.C. Board Assy CR Audio P.C. Board Assy CR Audio P.C. Board         △ 270       3-A       01V33300W03 P.C. Board         272       3-F       04B41345P15 Washer, Lock(M1.2) Washer, Lock(M1.7)         274       3-H       04B41345P17 Washer, Lock(M1)         275       2-D       04B41345P30 Washer, Lock(M3.1)         276       3-B       04B41345P32 Washer, Lock(M3.1)         277       2-E       01A30464W01 Assy Riv Play Clutch         278       2-A       30T15126W02 Wire, PC Joint 7P         279       2-D       03S44205C78 Screw, Pan(M2x6) Screw, Pan(M2x6)         280       03S4205G30 Screw, Pan(M2.6x4)         281       4-D       03S72235F53 Screw, Pan(M2x3.3) Screw, Eject Clutch(Mx2.3)         283       03S43997P64 Screw, Pan(M1.7x3)         284       3-F       41A10384W01 Spring, Eject Clutch Spring, Cas Push         286       2-C       41B10386W02 Spring, Sub Head		268	2-E	44A30487W01	Gear. Motor Clutch		
□   270   3-A   01V33300W03   Assy CR Audio P.C. Board     □   270   3-A   01V33300W03   Assy CR Audio P.C. 3o ard     272   3-F   04B41345P15   Washer. Lock(M1.2)     273   04B41345P02   Washer. Lock(M1.7)     274   3-H   04B41345P17   Washer. Lock(M1.7)     275   2-D   04B41345P30   Washer. Lock(M3.1)     276   3-B   04B41345P32   Washer. Lock(M3.1)     277   2-E   01A30464W01   Assy Riv Play Clutch     278   2-A   30T15126W02   Wire. PC Joint 7P     279   2-D   03S44205C78   Screw. Pan(M2x6)     280   03S44205G30   Screw. Pan(M2.6x4)     281   4-D   03S72235F53   Screw. Pan(M2.6x4)     281   4-D   03S72235F53   Screw. Pan(M2.6x4)     281   4-D   03S72235F53   Screw. Pan(M1.7x3)     282   3-F   03A12132W02   Screw. Pan(M1.7x3)     283   3-E   41A10384W01   Spring. Eject Clutch     285   3-E   41A10386W02   Spring. Sub Head     286   2-C   41B10386W02   Spring. Sub Head		269	1-G	42A31850W01	Belt. CR		
P.C. Board    P.C. Board   P.C. Board	0	270	3-A	01V43400W38	Assy., GR Audio P.C. Board		
∆   270   3-A   01V33300W03   Assy GR Audio P.C. 3oard   272   3-F   04B41345P15   Washer. Lock(M1.2)   Washer. Lock(M1.7)   274   3-H   04B41345P17   Washer. Lock(M1)   275   2-D   04B41345P30   Washer. Lock(M3.1)   276   3-B   04B41345P32   Washer. Lock(M3.1)   277   2-E   01A30464W01   Assy Riv Play Clutch   Wire. PC Joint 7P   279   2-D   03S44205C78   Screw. Pan(M2x6)   Screw. Pan(M2x6)   Screw. Pan(M2.6x4)   281   4-D   03S72235F53   Screw. Pan(M2.6x4)   Screw. Eject Clutch(Mx2.3)   282   3-F   03A12132W02   Screw. Eject Clutch   Mx2.3   Spring. Eject Clutch   Spring. Cas Push   286   2-C   41B10386W02   Spring. Sub Head   Spring. Spri		270	3-A	01V33300W03	Assy GR Audio		
272   3-F   04B41345P15   Washer. Lock(M1.2)					P.C. Board		
272   3-F   04B41345P15   Washer. Lock(M1.2)							
273 274 3-H 04B41345P02 Washer. Lock(M1.7) 275 2-D 04B41345P30 Washer. Lock(M3.1)  276 3-B 04B41345P32 Washer. Lock(M3.1)  277 2-E 01A30464W01 Assy Riv Play Clutch 278 2-A 30T15126W02 Wire. PC Joint 7P 279 2-D 03S44205C78 280 03S44205C30 Screw. Pan(M2x6) Screw. Pan(M2.6x4)  281 4-D 03S72235F53 282 3-F 03A12132W02 03S43997P64 283 03S43997P64 284 3-F 41A10384W01 285 3-E 41A10385W01 Spring. Eject Clutch Spring. Cas Push  286 2-C 41B10386W02 Spring. Sub Head	Δ		3-A	01/33300M03	Assy GR Audio P.C. Board		
274 3-H 04B41345P17 Washer. Lock(M1) 275 2-D 04B41345P30 Washer. Lock(M3.1)  276 3-B 04B41345P32 Washer. Lock(M3.1)  277 2-E 01A30464W01 Assy Riv Play Clutch 278 2-A 30T15126W02 Wire. PC Joint 7P 279 2-D 03S44205C78 Screw. Pan(M2x6) 280 03S44205C30 Screw. Pan(M2x6) 281 4-D 03S72235F53 Screw. Pan(M2x3.3) 282 3-F 03A12132W02 Screw. Eject Clutch(Mx≥.3) 283 03S43997P64 Screw. Pan(M1.7x3) 284 3-F 41A10384W01 Spring. Eject Clutch 285 3-E 41A10385W01 Spring. Cas Push  286 2-C 41B10386W02 Spring. Sub Head		272	3-F		Washer, Lock(M1.2)		
275 2-D 04B41345P30 Washer. Lock(M3.1)  276 3-B 04B41345P32 Washer. Lock(M3.1)  277 2-E 01A30464W01 Assy Riv Play Clutch  278 2-A 30T15126W02 Wire. PC Joint 7P  279 2-D 03S44205C78 Screw. Pan(M2x6)  280 03S44205C30 Screw. Pan(M2x6.)  281 4-D 03S72235F53 Screw. Pan(M2x3.3)  282 3-F 03A12132W02 Screw. Eject Clutch(Mx≥.3)  283 03S43997P64 Screw. Pan(M1.7x3)  284 3-F 41A10384W01 Spring. Eject Clutch  285 3-E 41A10385W01 Spring. Cas Push  286 2-C 41B10386W02 Spring. Sub Head		273		04B41345P02	Washer, Lock(M1.7)		
276		274	3 <b>−</b> H	04B41345P17	Washer, Lock(M1)		
277 2-E 01A30464W01 Assy Riv Play Clutch 278 2-A 30T15126W02 Wire. PC Joint 7P 279 2-D 03S44205G78 Screw. Pan(M2x6) 280 03S4205G30 Screw. Pan(M2.6x4)  281 4-D 03S72235F53 Screw. Pan(M2x3.3) 282 3-F 03A12132W02 Screw. Eject Clutch(Mx ≥ .3) 283 03S43997P64 Screw. Pan(M1.7x3) 284 3-F 41A10384W01 Spring. Eject Clutch 285 3-E 41A10385W01 Spring. Cas Push  286 2-C 41B10386W02 Spring. Sub Head		275	2-D	04B41345P30	Washer, Lock(M3.1)		
277 2-E 01A30464W01 Assy Riv Play Clutch 278 2-A 30T15126W02 Wire. PC Joint 7P 279 2-D 03S44205G78 Screw. Pan(M2x6) 280 03S4205G30 Screw. Pan(M2.6x4)  281 4-D 03S72235F53 Screw. Pan(M2x3.3) 282 3-F 03A12132W02 Screw. Eject Clutch(Mx ≥ .3) 283 03S43997P64 Screw. Pan(M1.7x3) 284 3-F 41A10384W01 Spring. Eject Clutch 285 3-E 41A10385W01 Spring. Cas Push  286 2-C 41B10386W02 Spring. Sub Head							
278 2-A 30T15126W02 Wire PC Joint 7P 279 2-D 03S44205C78 Screw Pan(M2x6) 280 03S44205C30 Screw Pan(M2x6)  281 4-D 03S72235F53 Screw Pan(M2x3.3) 282 3-F 03A12132W02 Screw Eject Clutch(Mx ≥ .3) 283 03S43997P64 Screw Pan(M1.7x3) 284 3-F 41A10384W01 Spring Eject Clutch 285 3-E 41A10385W01 Spring Cas Push  286 2-C 41B10386W02 Spring Sub Head			1		1		
279			1				
280			1 1				
281 4-D 03S72235F53 Screw. Pan(M2x3.3) 282 3-F 03A12132W02 Screw. Eject Clutch(Mx 2.3) 283 03S43997P64 Screw. Pan(M1.7x3) 284 3-F 41A10384W01 Spring. Eject Clutch 285 3-E 41A10385W01 Spring. Cas Push 286 2-C 41B10386W02 Spring. Sub Head			2-D				
282 3-F 03A12132W02 Screw. Eject Clutch(Mx 2.3) 283 03S43997P64 Screw. Pan(M1.7x3) 284 3-F 41A10384W01 Spring. Eject Clutch 285 3-E 41A10385W01 Spring. Cas Push 286 2-C 41B10386W02 Spring. Sub Head		280		03S44205G30	Screw, Pan(M2.6x4)		
282 3-F 03A12132W02 Screw. Eject Clutch(Mx 2.3) 283 03S43997P64 Screw. Pan(M1.7x3) 284 3-F 41A10384W01 Spring. Eject Clutch 285 3-E 41A10385W01 Spring. Cas Push 286 2-C 41B10386W02 Spring. Sub Head		281	4-D	03679935559	Serou Pan(M9v9 3)		
283							
284 3-F 41A10384W01 Spring. Eject Clutch 285 3-E 41A10385W01 Spring. Cas Push 286 2-C 41B10386W02 Spring. Sub Head			'				
285 3-E 41A10385W01 Spring. Cas Push 286 2-C 41B10386W02 Spring. Sub Head			3-F				
286 2-C 41B10386W02 Spring Sub Head			1				
				-1111 3000 # 01	orring, one i usii		
		286	2-C	41B10386W02	Spring, Sub Head		
for the formal following the formal most of		287	2-B	41A10387W01	Spring. Pinch Roller		
288 3-D 43A12719W01 Roller Pause		288	3-D	43A12719W01			
289 3-B 01B30863W01 Assy. Pinch Roller		289	1.				
© 290 2-B 84T25151W01 Head P.C. Board	0	290	i				

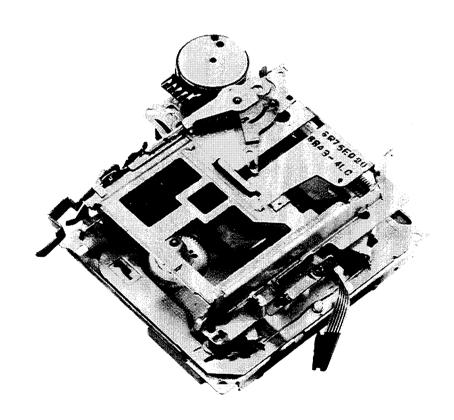
Notes: ⊚: For CR75H020 model only □: For CR75H030 model only □ 31 △ ; For GR75H130 model only Others ; Common

Symbol IN- Part No. Description								
_	No.	dex	4.00045	·				
	290	2-B	84T35271W01	Head P.C. Board				
Δ	290	2-B	84T35271W01	Head P.C. Board				
	291	5-E	01T35403W01	Assy Reel				
	292	5-E	04B41345P12	Washer Lock(M1.7)				
	293	2-D	04B41345P35	Washer, Lock(M1.7)				
	204		43400007001	0 141				
	294	2-E	43A30827W01	Spacer, Motor Idler				
	295	2-E	41A30490W01	Spring, Play Clutch				
	296	5-D	01A40882W01	Assy., Riv Lever RF				
	297	2-D	34A48030W01	Washer, Solenoid				
	298	3-E	01A10201W02	Assy. Riv Lever Pause				
	299	4-C	43A40388W01	Spacer, Polyslider				
	300	2-B	41A41416W01	Spring, Head				
Δ	300	2-B	41A41416W01	Spring, Head				
		ļ						
i		-						
		]						
		1	Mine	ellaneous				
			MISC	ellaneous				
<b>0</b>	501	2-B	88T15971W01	Head				
	501	2-B	88T35406W01	Head				
Δ	501	2-B	88T35406W01	Head				
	502	5-F	01V41100W72	Assy., Motor(11.5v-85mA)				
	503	3-G	51T15144W01	Sensor, Photo				
	504	4-G	01T10371W01	R/F Sol. Assy.				
	505	4-F	40T15382W01	SW Detector				
				(Pack Down)				
	506	4-G	40T15382W01	SW Detector(Metal)				
	507	2-C	40T15222W01	SW Detector (Pack In)				
	508	2-D	01T15249W01	Assy., Play Solenoid				
	509	4-D	01T10369W02	Assy., Eject Solenoid				
+	-							
Notes: ◎ ; For GR75H020 model only ☐ ; For GR75H030 model only								
∴ For GR75H130 model only Others: Common — 32 -								



# Cassette Deck Mechanism

# ADDENDUM & REVISED(III)



GR/GR-Y SERIES

# Contents List of Usable Lock Washers 3 List of Usable Oil 3 List of Usable Jigs 3 Disassembly, Assembly and Replacement of Functional Parts 5 to 16 Exploded View (1/3) 17 to 18 Cassette Deck Assembly Parts List (1/3) 19 to 20 Exploded View (2/3) 21 to 22 Cassette Deck Assembly Parts List (2/3) 23 to 24 Exploded View (GR-Y Series) (3/3) 25 to 26 Cassette Deck Assembly Parts List (GR-Y Series) (3/3) 27 to 28

# **List of Usable Lock Washers**

			QUANTITY			
	SIZE	PARTS NO.	GR75E Series	GR75L Series	GR-Y Series	
1	$(M1.2 \times 3.5 \times 0.25)$	04B41345P01	8	7	6	
2	$(M1.7 \times 3.5 \times 0.25)$	04B41345P02	1	1	2	
3	$(M2.1 \times 5 \times 0.25)$	04B41345P06	1	1	0	
4	$(M1.2 \times 2.5 \times 0.25)$	04B41345P11	7	7	8	
5	$(M1.7 \times 3.5 \times 0.35)$	04B41345P12	2	2	2	
6	$(M1.2 \times 3.5 \times 0.35)$	04B41345P15	1	1	1	
7	$(M1 \times 2.5 \times 0.25)$	04B41345P17	1	1	1	
8	$(M2.6 \times 5 \times 0.25)$	04B41345P29	1	1	0	
9	$(M3.1 \times 8 \times 0.05)$	04B41345P30	1	1	1	
10	$(M1.7 \times 3 \times 0.25)$	04B41345P31	1	1	1	
11	$(M3.1 \times 5 \times 0.35)$	04B41345P32	2	2	2	
12	$(M1.2 \times 2.5 \times 0.3)$	04B41345P34	1	1	0	
13	$(M2.1 \times 4 \times 0.25)$	04B41345P37	0	0	1	
14	$(M2.6 \times 4.7 \times 0.25)$	04B41345P38	0	0	1	

# **List of Usable Oil**

- Molykote E paste
   Grease EM-30L
   Grease FLOIL 425A

# **List of Usable Jigs**

- GR bottom gear jig (Part No. 44A20788W01)
   Head height adjustment gauge AI-500 (Part No. AI-500)

## Memo

# Disassembly, Assembly and Replacement of Functional Parts

### 1. Disassembly and Assembly of Bottom Cover

- (1) Turn the mechanism around as shown in Figure 1.
- (2) Remove M1 lock washer ① as shown in Figure 1.
- (3) Remove three screws (2) as shown in Figure 1.
- (4) Lift the bottom cover slowly from the position (a)-1, pull the hooks out of the holes in the chassis, and remove the bottom cover as shown in Figure 1.
- (5) When remounting the bottom cover, first turn the front of the mechanism up as shown in Figure 2.
- (6) Slide the slider in the direction (A)-2 as shown in Figure 2.
- (7) Push down the cassette holder in the direction (A)-3 as shown in Figure 2.
- (8) Pull the door pin in the direction (a)-4 so that the mechanism is locked in as shown in Figure 2.
- (9) Turn the mechanism around as shown in Figure 3.
- (10)Pull the automatic metal lever in the direction (a)-5 and the RF solenoid chip in the direction (a)-6 as shown in Figure 3.
- (11)Insert the hooks of the bottom cover into the chassis in the direction (a)-7, and then join the part (a)-8 of the bottom cover to the chassis slowly, making sure that the 3 points indicated with the straight lines in the Figure 3 are fitted properly.
  - If there are troubles in mounting the bottom cover, do not apply force but remove the bottom cover once again and check the positions of the individual parts. (Refer to Figure 3.)
- (12)Since the hooks marked (A)-8 will be lifted slightly as shown in Figure 4, insert the jig through the hole (A)-9, and fix it turning the jig slightly in the direction (A)-11. Instead of operation (12), turn the gear nose slowly with a precision screwdriver etc., taking care not to damage it.
  - After 2 to 3 turns, it will click into place. (Refer to Figures 4 and 5.)
- (13)Fix the screws and the lock washer that have been removed.

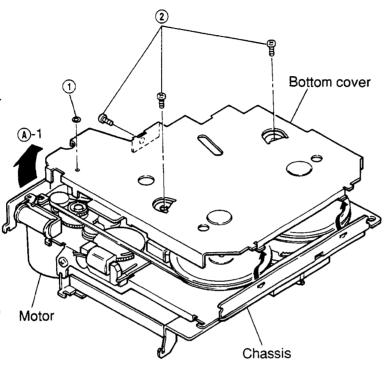


Figure 1

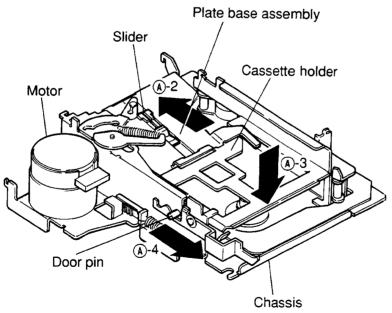


Figure 2

(14)Insert the jig into the hole (A)-9 as shown in Figure and rotate the eject solenoid counterclockwise about 20 times, pulling it in the direction (A)-10 with the finger.

Then the eject operation is completed.

Instead of operation (14), the eject operation can be performed by mounting the mechanism to the product. (Refer to Figures 4 and 5.)

**Note:** Do not reuse the used lock washers for mounting.

When turning the mechanism, be careful not to drop the gear and the flywheel. Fasten the three screws with a fastening torque of 6 kg.cm.

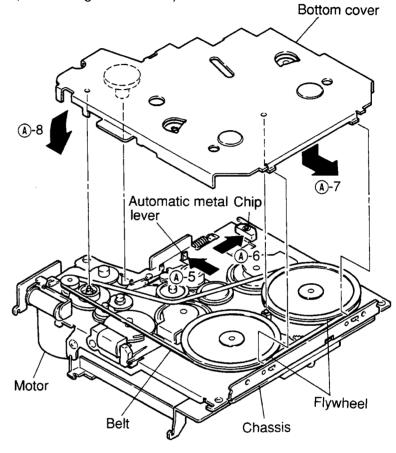


Figure 3

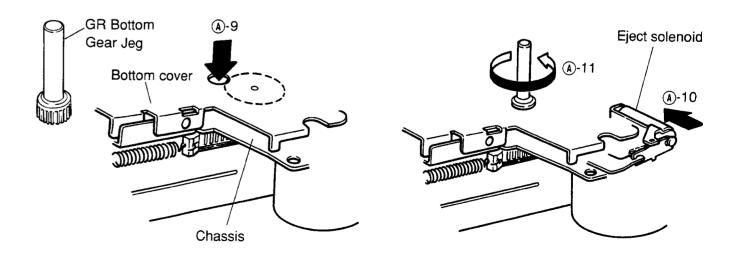


Figure 4

Figure 5

### 2. Replacement of the bottom cover mounting parts

- a. Replacement of the eject gear
  - (1) Remove M1.2 lock washer ③ as shown in Figure 6.
  - (2) Pull the eject pinion out of the eject gear and remove the eject gear as shown in Figure 6.
  - (3) Apply the molykote E paste to the section (B-1, and mount the eject gear following the removal steps in the reverse order. After replacement is finished, make sure that the gear rotates smoothly. (Refer to Figure 6.)

**Note:** Do not reuse the used lock washers for remounting.

Take care to avoid damage by piercing and tearing.

- b. Replacement of the RF solenoid
  - (1) Remove two solders 4 and remove the RF solenoid from the bottom cover by pulling it up as shown in Figure 6.
  - (2) Replace the solenoid with a new one, and remount it following the removal steps in the reverse order as shown in Figure 6.

Note: When removing solder ④, set the temperature of the soldering iron to 350° ± 10° and the soldering time to 1 – 3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged.

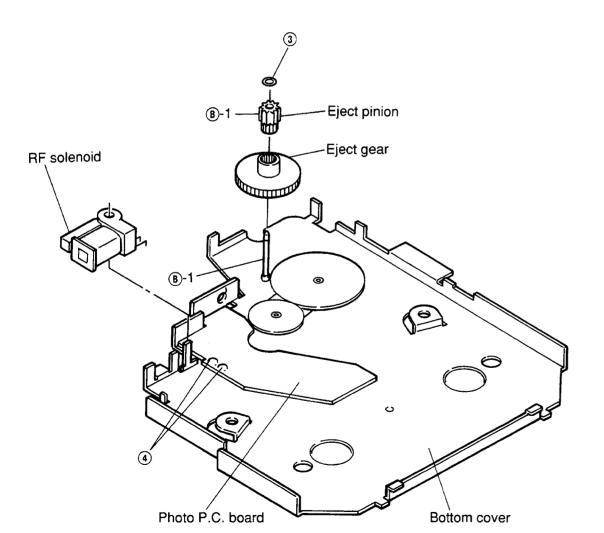


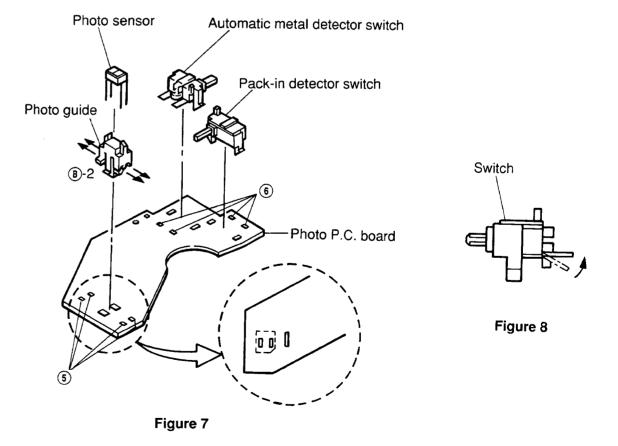
Figure 6

- c. Replacement of the photo sensor
- (1) Remove four solders (5) as shown in Figure 7.
- (2) Remove the photo guide together with the photo sensor from the photo P.C. board as shown in Figure 7.
- (3) Insert the new photo sensor into the photo guide, and bend the legs of the photo sensor in the direction marked ®-2 as shown in Figure 7.
- (4) Insert the photo guide into the P.C. board and solder the legs so that the photo sensor is set as indicated by [...] in Figure 7.

Note: When using the soldering iron, set the temperature of the soldering iron to  $350^{\circ} \pm 10^{\circ}$  and the soldering time to 1-3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged. Also take care that the photo guide is properly fixed and straight.

- d. Replacement of the detector switch (Automatic metal pack-in)
- (1) Remove 4 solders (6) with which the switch is fixed as shown in Figure 7.
- (2) Prepare the terminals of the switch of the new solder as shown in Figure 8.
- (3) After that, insert the switch into the photo P.C. board, and solder the terminals.

Note: When using the soldering iron, refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Also take care that the switch guide is properly fixed and straight.



#### 3. Replacement of the mounting parts on the rear of the main chassis

a. Replacement of the belt

Flywheel

- (1) After removing the bottom cover, remove the
- (2) Clean the new belt with absolute alcohol, and fix it as shown in Figure 9.

Note: When fixing the belt, make sure that it is not twisted or dirty. When removing the belt, do not turn up the front of the chassis.

- b. Replacement of the motor
  - (1) After removing the belt, remove spring (7) as shown in Figure 10.
  - (2) Remove solder (8)-1, and remove the parallel wire (5P) from the control P.C. board as shown in Figure 11.
  - (3) Remove two screws (9) and (10), and remove the motor, taking care not to damage the motor idler gear. (Refer to Figure 10.)
  - (4) Mount the new motor following the removal steps in the reverse order.

Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Since the parallel wire is very easily damaged, handle it with

Fasten the two screws with a fastening

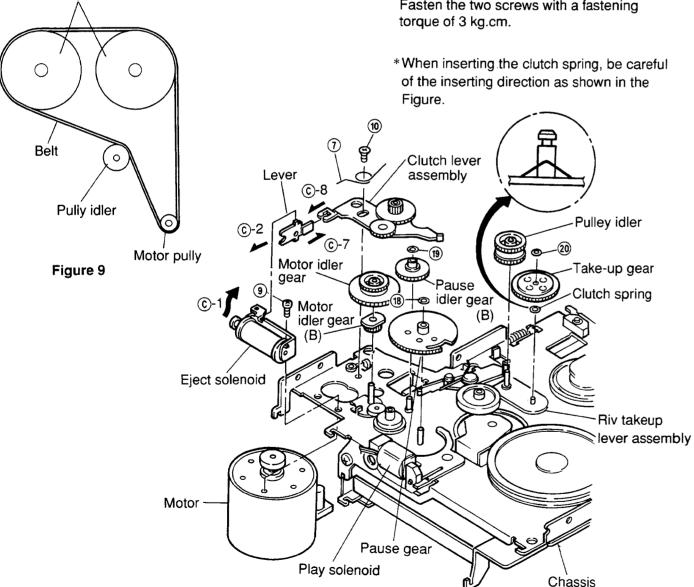


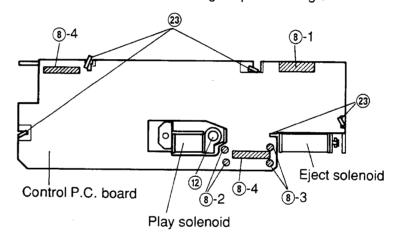
Figure 10

- c. Replacement of the flywheels
  - (1) After removing the belt, pull out the two flywheels. Take care not to loose the polyslider washer (1) located between the flywheel and the chassis. (Refer to Figure 12.)
  - (2) Fix the polyslider washer to the new flywheel and mount the flywheel to the chassis.
- d. Replacement of the play solenoid
  - (1) Remove the two solders (8)-2 as shown in Figure 11.
- (2) Remove one screw (2) and remove the solenoid as shown in Figure 11.
- (3) Mount the new solenoid following the removal steps in the reverse order.

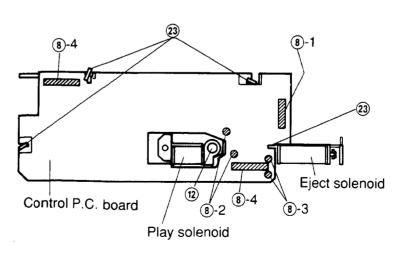
Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 2.3 kg.cm.

- e. Replacement of the eject solenoid
  - (1) Remove two solders (8)-3. Take care not to loose the tube that protects the wire. (Refer to Figure 11.)
  - (2) Remove screw (9) and remove the play solenoid as shown in Figure 10.
  - (3) Align position (c)-1 of the new solenoid with position ©-2 of the lever and fasten the screw as shown in Figure 10.
- (4) Lead the wire through the tube and solder it.

Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 3 kg.cm. As the solder wires are not insulated, do not let them cross each other.



[For GR75E020, GR75E010, GR75E01A, GR75E01C models]



[For GR75L020, GR75L010 models]

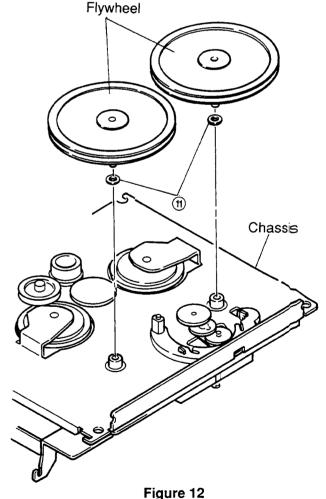


Figure 11

### Sugal

#### f. Replacement of gears

- (f-1) Replacement of the reverse idler gear
  - (1) Remove M1.2 lock washer (3), pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
  - (2) Remount following the removal steps in the reverse order.

#### (f-2) Replacement of the sun gear

- (1) Remove M1.2 lock washer (1), pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
- (2) Mount it, following the removal steps in the reverse order.

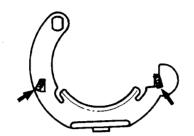
### (f-3) Replacement of the fixing gear

- (1) Adjust the two mounting claws for the fix gear on the chassis (5) and remove the section (°)-3 of the gear by pulling it up in the direction of the arrow shown in Figure 13.
- (2) Insert the section ©-4 of the new gear into the chassis, and mount it following the removal steps in the reverse order as shown in Figure 13.
- (f-4) Replacement of the reverse lever assembly and planet gear
  - (1) Remove both the fixing gear and the sun gear and remove the reverse lever assembly as shown in Figure 13.
  - (2) Remove M1.7 lock washer (6) and remove the planet gear as shown in Figure 14.
  - (3) Mount the new planet gear and reverse lever following the removal steps in the reverse order.

#### Notes on f-1 through f-4:

After mounting all parts, check if the reverse lever moves in the directions marked ©-5 when the reverse gear is turned clockwise and counterclockwise.

\*After mounting the fixing gear, bend the claws (s) into the form of as shown in the Figure.



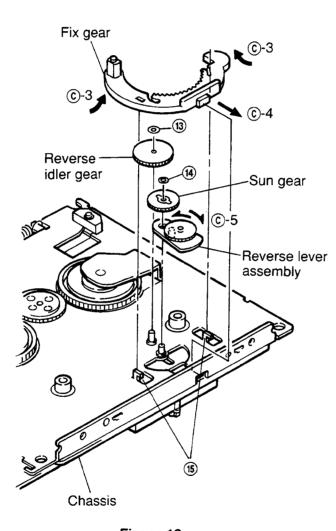


Figure 13

- (f-5) Replacement of the clutch lever assembly and eject idler gear
  - (1) After removing the motor, remove the motor idler gear and the motor idler gear (B) and remove the clutch lever assembly as shown in Figure 10.
  - (2) Remove M1.2 lock washer (1) and remove the eject idler gear as shown in Figure 15.
  - (3) Mount the new gears and clutch lever following the removal steps in the reverse order.

Note: When mounting the gears to the lever, apply grease (FLOIL 425A) to the position ©-6 as shown in Figure 15. Align the position ©-7 with the position ©-8 and mount the clutch lever as shown in Figures 10 and 15.

#### (f-6) Replacement of the pause gear

- (1) Remove M1.2 lock washer ® and remove the pause gear pulling it up from the stud of the chassis as shown in Figure 10.
- (2) Mount the new gear following the removal steps in the reverse order.

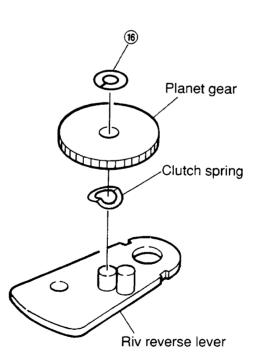
- (f-7) Replacement of the pause idler gear (B)
  - (1) After removing the motor and the motor idler gear, remove M1.2 lock washer (9) and remove the gear by pulling it up from the stud of the chassis as shown in Figure 10.
- (2) Mount the new gear by following the removal steps in the reverse order.

#### (f-8) Replacement of the take-up gear

- (1) After removing the belt and the pulley idler gear, remove M1.2 lock washer ② by pulling it up from the stud of the riv take-up lever assembly as shown in Figure 10.
- (2) Remount the take-up gear following the removal steps in the reverse order.

#### Notes on f:

Do not reuse the used washers. Take care to avoid damage by piercing and tearing.



[Disassembly Reverse Lever Assembly]

Figure 14

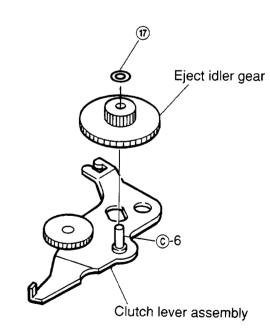


Figure 15

### 4. Replacement of the parts mounted on the front of the chassis

- a. Replacement of the audio P.C. board
  - (1) Remove two solders ② and remove the parallel wire (7P) and the head P.C. board as shown in Figure 16.
  - (2) Adjust the two claws ② to the rectangular holes on the P.C. board and remove the P.C. board as shown in Figure 16.
  - (3) After replacement, mount the new P.C. board following the removal steps in the reverse order.

Note: The head P.C. board and the parallel wire are easily damaged. Handle them with care. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head P.C. board.

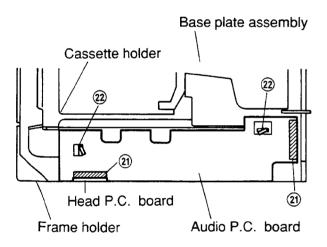


Figure 16

- b. Replacement of the control P.C. board
  - (1) Remove seven solders (3) and remove the three parallel wires and the wires of the eject solenoid and of the play solenoid as shown in Figure 11.
  - (2) Remove five claws ② and remove the P.C. board as shown in Figure 11. [For GR75E020, GR75E010, GR75E01A, GR75E01C models] Remove four claws ② and remove the P.C. board as shown in Figure 11. [For GR75L020, GR75L010 models]
  - (3) After replacing the old P.C. board with a new one, mount it following the removal steps in the reverse order.

**Note:** As mentioned in Item 4-a, handle the parallel wires carefully, and be sure that the temperature of the soldering iron and the soldering time are proper. As the wires of the eject solenoid are not insulated, do not let them cross each other.

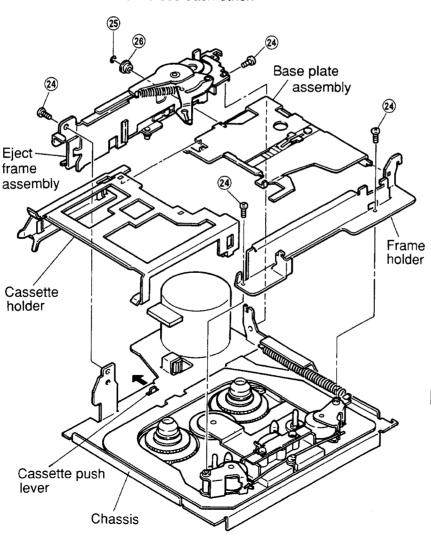


Figure 17

- c. Disassembly and assembly of the cassette holder
- (1) Remove four screws ② and remove the eject frame assembly and the frame holder as shown in Figure 17.
- (2) Remove M1.2 lock washer ② and plate base roller ② and remove the cassette holder and the base plate assembly as shown in Figure 17
- (3) Remount them following the removal steps in the reverse order.

Notes: 1. When mounting the cassette holder and the base plate, insert the slider shaft into the eject arm and fix them turning the slider shaft in the direction indicated by the arrow in the figure. Make sure that the cassette holder and the base plate are in the cassette-in mode during this operation. (Refer to Figure 18).

- When mounting the eject frame assembly, push the cassette push lever in the direction indicated by the arrow in the Figure 17.
- When mounting the base plate
   assembly and the eject frame
   assembly, or when mounting the eject
   frame assembly to the chassis, do not
   apply excessive force to avoid
   deformations of the eject arm and the
   frame.
- Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

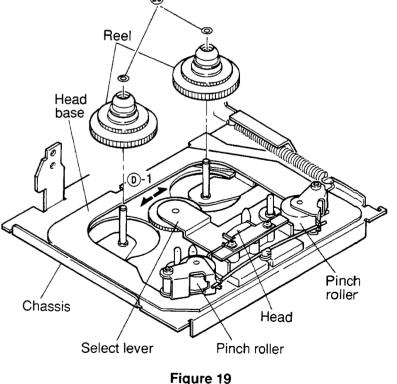
Eject arm

Base plate

Slider

- d. Replacement of the reels
  - (1) Remove M1.7 two lock washers (a) (Refer to figure 19).
  - (2) Move the select lever in the direction marked
     (D)-1 in the Figure and remove the reel by gripping the reel gear as shown in Figure 19.
  - (3) After replacement, mount the new reels following the removal steps in the reverse order.
- (4) After mounting, check the tape speed and the wow and flutter with test tape MTT-111.

Note: Since the reel is easily loosened if the cap is gripped, always handle it gripping the gear. Do not reuse the used washers. Take care to avoid damage by piercing and tearing.



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Figure 18



- e. Replacement of the pinch rollers
  - (1) Remove pinch roller spring (2) as shown in Figure 20.
  - (2) Remove M3.1 two lock washers 28 and remove the pinch roller as shown in Figure 20.
  - (3) Mount the pinch rollers following the removal steps in the reverse order. Apply insulation coating to the position (a)-2 of the pinch roller as shown in Figure 20.

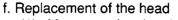
Note: Make sure that the pinch rollers are thoroughly fixed and that they are not deformed. Do not reuse used lock washers. Take care to avoid damage by piercing and tearing.

Pinch roller

Head base

Figure 20

Pinch roller



- (1) After removing the pinch roller spring, remove two screws 29 as shown in Figure 21.
- (2) Remove solder 30 and remove the head from the head P.C. board as shown in Figure 22.
- (3) After replacement, mount the new head following the removal steps in the reverse order.

Notes: 1. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head P.C. board. Make sure that the head P.C. board is not lifted.

> 2. Fasten the two screws with a fastening torque of 2.3 kg.cm. Note that the tension of the head spring can be decreased if the screws are fastened too strongly.

> > Head

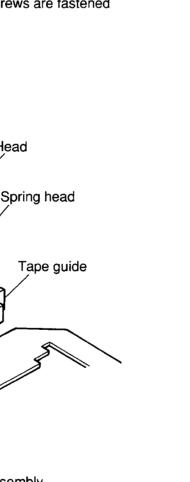


Figure 21

Head base assembly

- (4) Adjust the height of the head as shown in Figures 23, 24 and 25.
- 1) Place the height adjustment gauge (Al-500) on the head base, and adjust the height so that the check bar fits in the tape head guide smoothly.
- When the check bar touches the top (or bottom) of the tape guide, insert a spacer (t 0.1 mm or polislider washer t 0.13 mm). If necessary, remove the spacer.

Note: If you do not have a height gauge like described in (4)-(1), run the tape at normal speed and adjust the height of the head and the tape head guide so that the tape does not curl.

(5) After having assembled the complete mechanism, adjust the angle of the head with test tape MTT-113C. (Refer to chapter "Adjustment of the head angle".) After the adjustment, apply the screw lock and fix the screws.

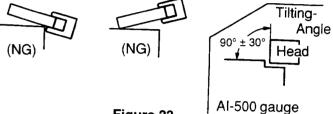


Figure 23

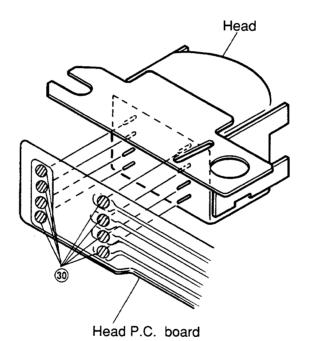


Figure 22

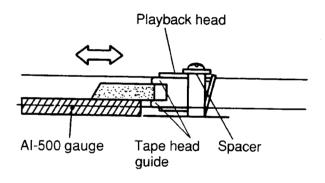
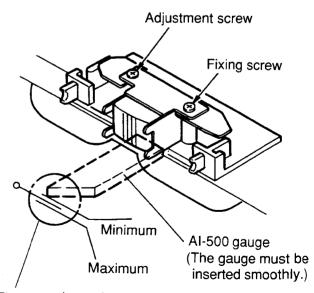


Figure 24



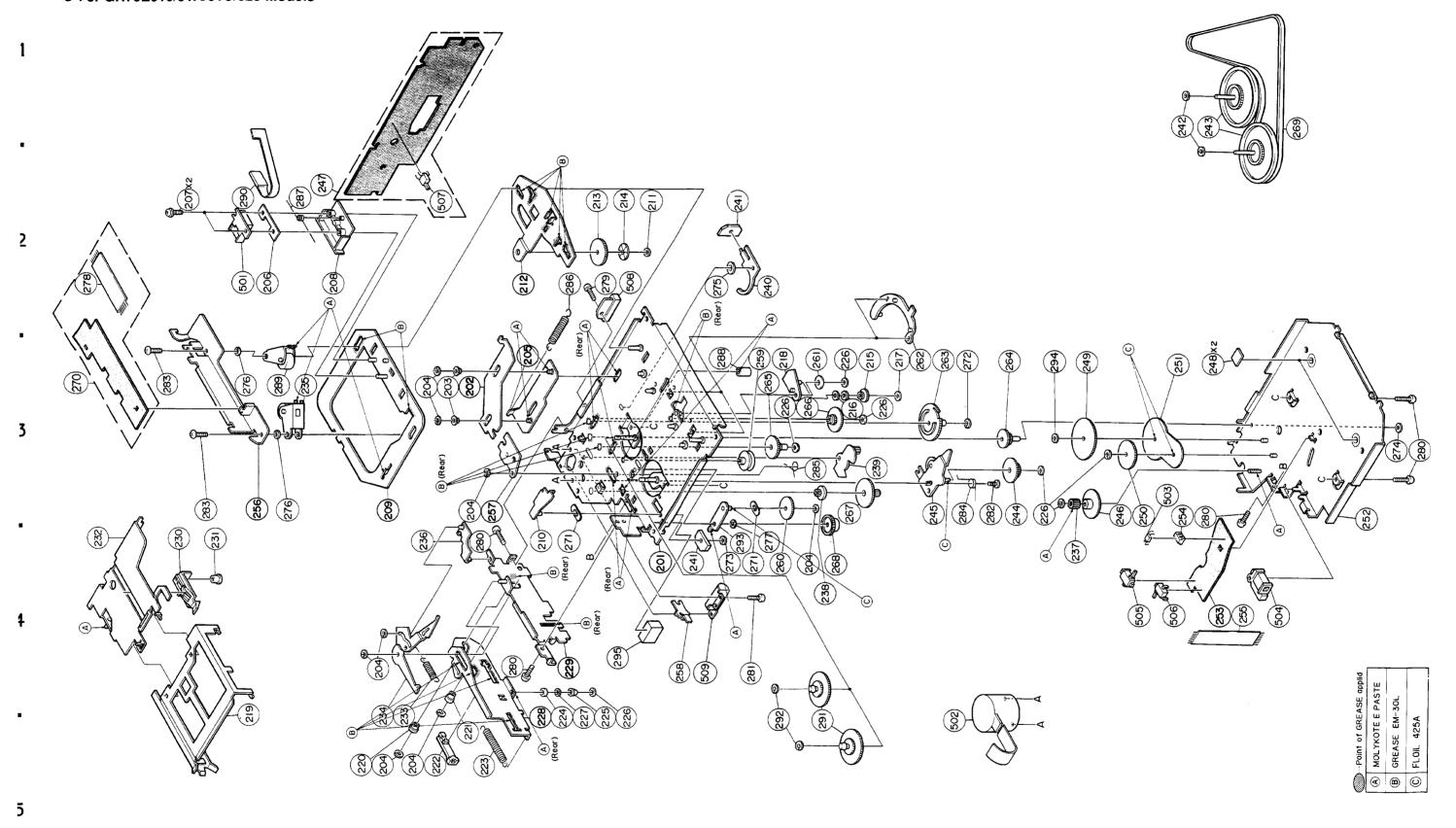
The nosepiece of the gauge must be between the minimum and maximum positions.

Figure 25

Chassis

### Exploded View (1/3)

• For GR75E010/01A/01C/020 Models



**-** 17 -

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### **Cassette Deck Assembly Parts List (1/3)**

Symbol No.	IN- dex	Part No.	Description	
203	3-C	43A11072W01	Roller, Sub Head	
204		04B41345P01	Washer, Lock(M1.2)	
206	2-B	41A10095W01	Spring. Head	
207	2-B	03S40019G03	Screv. F-Locks (M2x4)	
208	2-B	43B12545W01	Tape, Guide	
210	4-C	01A10206W01	Assy. Riv Lever R/F	

206	2-B	41A10095W01	Spring. Head
207	2-B	03S40019G03	Screv. F-Locks (M2x4)
208	2-B	43B12545W01	Tape, Guide
210	4-C	01A10206W01	AssyRiv Lever R/F
			So1
211	2-D	04B41345P29	Washer, Lock(M2.6)
213	2-D	44A10295W01	Gear, Sensor

I	214	2-D	14A10681W01	Reflector
l	215	3-E	44A10142W01	Gear, Planet
1				
l	216	3-E	41A10097W02	Spring, Clutch
1	217	3-E	04B41345P35	Washer, Lock(M1.7)
1	218	3-E	01A21853W01	Assy., Riv Lever
				Reverse
	219	4-B	07B10074W01	Holder, Cassette
	220	5-B	43A12583W01	Roller, Eject

221	5-C	43A63281F01	Roller, Plate Base
		44A82206F01	
223	5-C	41B10386W03	Spring, GR(Rack)
224	4-C	43A10121W01	Roller, Eject A
225	4-D	43A10360W01	Roller. Eject B

232

246 3-F

233 4-C

0W01	Roller. Eject B	
	Washer, Lock (M1.2)	
73401	D-11 Pince C	

227	4-D	43A12377W01	Roller, Eject C Slider
230	4-A	45B10376W01	Slider
231	4-B	47A63278F01	Shaft, Slider

4-A	01A10212W01	AssyRiv Plate Base
4-C	41B10386W01	Spring. Eject Arm

234	4-B	01A10148W01	Assy., Riv Eject
			Arm A
235	3-B	01B10381W02	Assy., Pinch Roller

236	4-C	45A10087W01	Lever Pack In SW
237	4-F	44A12975W01	Pinion, Eject
238	4-E	44A13617W01	

239	3-E	01A10201W02	Assy., Riv Lever
			Pause
240		45A10092W01	
241		76T10374W01	Chip

			'
241		76T10374W01	Chip
242	1-G	04S40075G05	Washer Polyslider
ļ			(M2.1)
Į.	1		

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243	1-G	01A10368W01	Assy., Flywheel Gear, Eject Idler Assy., Riv Lever
244	3-F	44A10141W01	Gear. Eject Idler
245	3-E	01A10205W01	Assy., Riv Lever
l			ا ما

Gear. Eject 44A10145W01 247 2-B 01V11500W18 Assy., GR Control

Notes : ● ; For GR75E020 model only ■ ; For GR75E010 model only

Note: The	parts vithout	parts .	list	аге	not	supplied.	

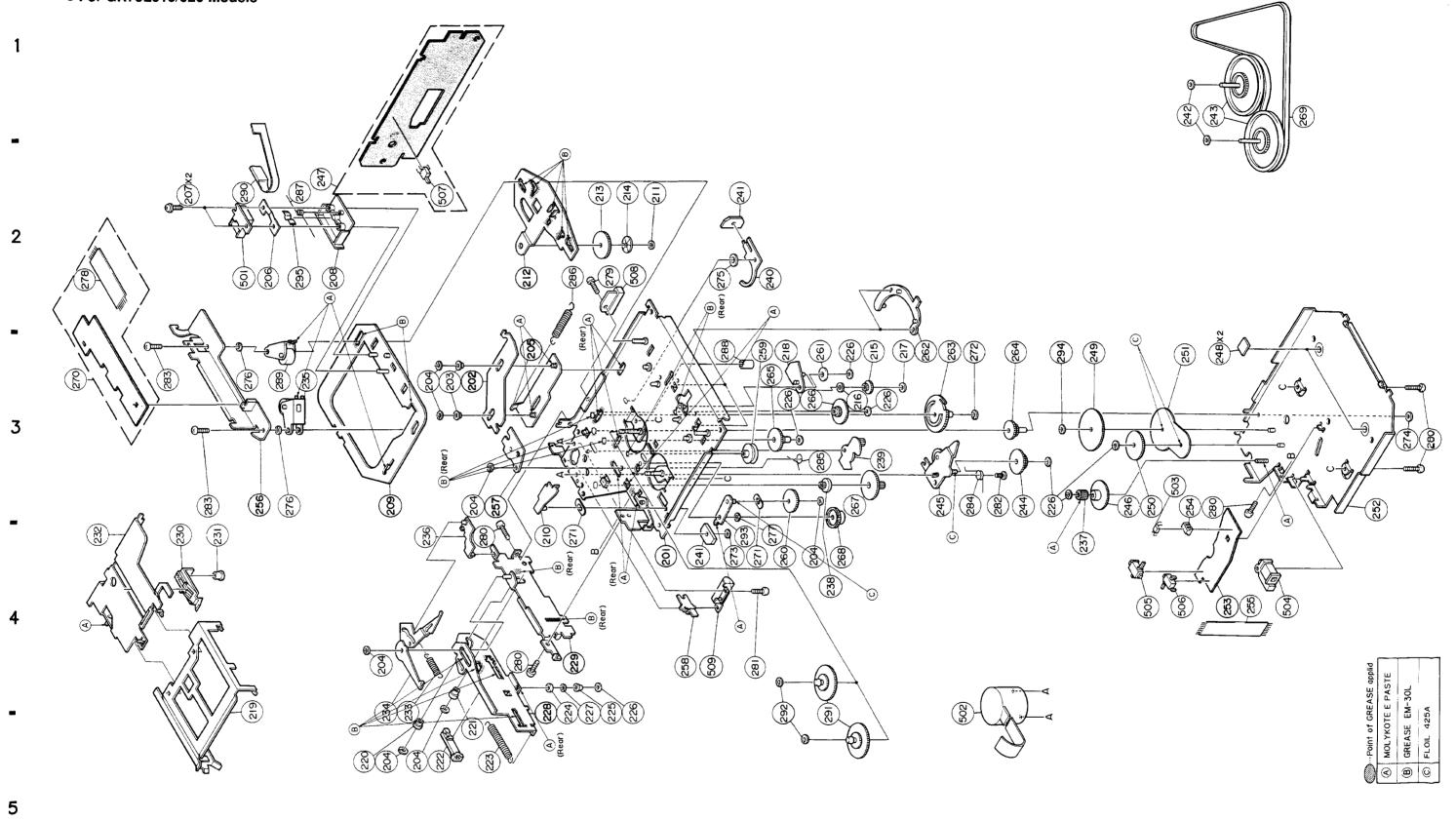
	_			Note	e:The parts v	ithout parts list are not supplied.
		-	ibol Vo.	IN- dex	Part No.	Description
	l		$\overline{}$	3-G	43A90918F01	Spacer. Polyslider
			249	3-F	44A11063W01	Gear. Botto∎ A
	- 1	Ì	250	3-F	44A11064W01	Gear, Botto∎ B
l	- {	l	251	3-G	34A11122W02	Washer. GR
		- 1	252	3-H	01A10210W02	Assy., Riv. Cover Bottom
	- [					
		- [	_			Guide, Photo
l			_		***************************************	Wire. PC Sensor(7P)
l	- 1					Lever, Eject Sol
	-		259			Pulley, idler
	- 1		260	4-E	44A10133W01	Gear. Take Up
	- 1		001	3-E	44A10134W01	Gear. Sun
l	ı		261 262		44B10135W01	Gear. Fix
			263		44B10135W01	Gear. Pause
l	ı					Gear, Pause Idler A
l			265		44A10379W01	Gear, Pause Idler B
l	- [					
l	1		266	3-E	44A10138W01	Gear, Reverse Idler
I	ĺ		267	3-E	44A10139W01	Gear. Motor Idler
l			268	4-E	44A11062W01	Gear. Reel Idler
١			269	1-G	42A10380W01	Belt. GR
ļ		ullet	270	3-A	01V14700W68	Assy., GR Audio
l	ı					P.C. Board
١	- 1			İ		
l	- 1		270	3-A	01V11500W19	Assy. CR Audio
l						P.C. Board
I	l	•	270	3-A	01V11500V19	Assy., GR Audio
۱		0	070		01V11500V19	P.C. Board Assy., GR Audio
l		0	270	3-A	01411300#13	P.C. Board
١	- 1		271	4-D	41A10097W02	Spring, Clutch
١			272	3-F	04B41345P15	Washer, Lock(M1.2)
ı						
١			273	4-D	04B41345P02	Washer, Lock (Mi.7)
1			274	3-H	04B41345P17	Washer, Lock(MI)
			275	2-D	04B41345P30	Washer, Lock (M3.1)
			276	3-B	04B41345P32	Washer, Lock (M3.1)
			277	4-E	04B41345P06	Washer, Lock(M2.1)
					000151001100	W PO 101-1 7D
			278	2-1	30T15126W02	Wire, PC Joint 7P
			279	2-D	03S44205G78	Screw. Pan(M2x6) Screw. Pan(M2.6x4)
			280	4-D	03S44205G30 03S72235F38	Screw. Pan(M2x3.3)
1			281	3-F	03A12132W02	Screw. Eject Clutch
			202	3-1	CONTETERNE	(M2x2.3)
			283		03S43997P64	Screw, Pan(M1.7x3)
			284	3-F	41A10384W01	Spring. Eject Clutch
			285	3-E	41A10385W01	Spring, Cas Push
į			286	2-C	41B10386W02	Spring, Sub Head
ĺ			287	2-B	41A10387W01	Spring, Pinch Roller
			1			D.11.
			288	3-D	43A12719W01	Roller. Pause
	1		1	1		I

	mbol No.	IN- dex	Part No.	Description
	289	3-B	01B10381W01	Assy., Pinch Roller
	290	2-B	84T10367¥01	Head P.C. Board
	291	4-E		Assy., Reel
- 1				· ·
	291	4-E		Assy., Reel
•	291	4-E	01T15164W02	Assy., Reel
0	291	4-E	01T15164W01	Assy., Reel
	292	4-E	04B41345P12	Washer, Lock(M1.7)
•	293	4-D	01A11078W01	Assy., Riv Lever
				Take Up
	293	4-D	01A11078W01	Assy., Riv Lever
				Take Up
•	293	4-D	01A11078W01	Assy., Riv Lever
				Take Up
				Take op
0	293	4-D	01A30161W01	Assy., Riv Lever
0	233	4 0	01/130101#01	Take Up
	004	2 0	04B41345P34	Washer, Lock(M1.2)
	294	3-F		, ,
	295	4-D	75S12196W88	Rubber. Pad
		1 .	Mica	ellaneous
		1		
•	501	2-B	88T15971W01	Head
	501	2-B	88T10373W01	llead
•	501	2-B	88T10373W01	Head
0	501	2-B	88T10373W01	Head
	502	4-E	01V11500W64	Assy Motor
	503	3-G	51T15144W01	Sensor. Photo
	504	4-G	01T10371W01	R/F Sol. Assy.
	505	4-F	40T15382W01	SW., Detector
				(Pack Down)
	506	4-G	40T15382W01	SW., Detector(Metal)
	507	2-C	40T15222W01	SW. Detector (Pack In)
				4
	508	2-D	01T15249W01	Assy., Play Solemoid
	509	4-D	01T10369W02	Assy., Eject Solenoid
	ì	1		
	And the state of t			

Notes : ● ; For GR75E020 model only ■ ; For GR75E010 model only ▲ ; For GR75E01A model only ○ ; For GR75E01C model only

### Exploded View (2/3)

● For GR75L010/020 Models



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## **Cassette Deck Assembly Parts List (2/3)**

Symbol	1 N-	Part No.	Description
No.	dex		
203	3-C	43A11072W01	Roll. Sub Head
204		04B41345P01	Washer, Lock(M1.2)
206	2-B	41A21671W01	Spring. Head
207	2-B	03S40019G03	Screw. F-Locks (M2x4)
208	2-B	43B12545W01	Tape, Guide
210	4-C	01A10206W01	Assy., Riv Lever R/F Sol.
211	2-D	04B41345P29	Washer, Lock (M2.6)
213	2-D	44A10295W01	Gear, Sensor
214	1	14A10681W01	Reflector
215	3-E	44A10142W01	Gear, Planet
216	3-E	41A10097W02	Spring. Clutch
217	3-E	04B41345P31	Washer, Lock (M1.7)
218	3-E	01A21853W01	Assy Riv Lever
			Reverse
219	4-B	07B10074W01	Holder, Cassette
220	5-B	43A12583W01	Roller, Eject
221	5-C	43A22153W01	Roller, Plate Base
222	5-C	44A82206F01	Rack
223	5-C	41B10386W03	Spring, GR(Rack)
224	4-C	43A10121W01	Roller, Eject(A)
225	4-D	43A10360W01	Roller, Eject(B)
226		04B41345P11	Washer, Lock(M1.2)
227	4-D	43A12377W01	Roller, Eject(C)
230	4-A	45B10376W01	Slider
231	4-B	47A63278F01	Shaft, Slider
232	4-A	01A10212W01	Assy., Riv Plate Base
233	4-C	41B10386W01	Spring, Eject Ar∎
234	4-B	01A21754W01	Assy. Riv Eject
			Arm(A)
235	3-B	01B10381W02	Assy., Pinch Roller
236	4-C	45A10087W01	Lever, Pack In SW.
237	4-F	44A20314W01	Pinion. Eject
238	4-E	44A13617W01	Gear, Motor Idler(B)
239	3-E	01A10201W02	Assy., Riv Lever
			Pause
240	2-D	45A10092W01	Lever, Play
241		76T10374W01	Chip
242	1-G	04S40075G05	Washer, Polyslider
			(M2.1)
243	1-G	01A10368W01	Assy., Flywheel
244	3-F	44A10141W02	Gear. Eject Idler
245	3-E	01A10205W02	Assy. Riv Lever
	-		Clutch(A)
246	3-F	44A10145W01	Gear, Eject
	2-B	01V23700W03	Assy., GR Control
247			

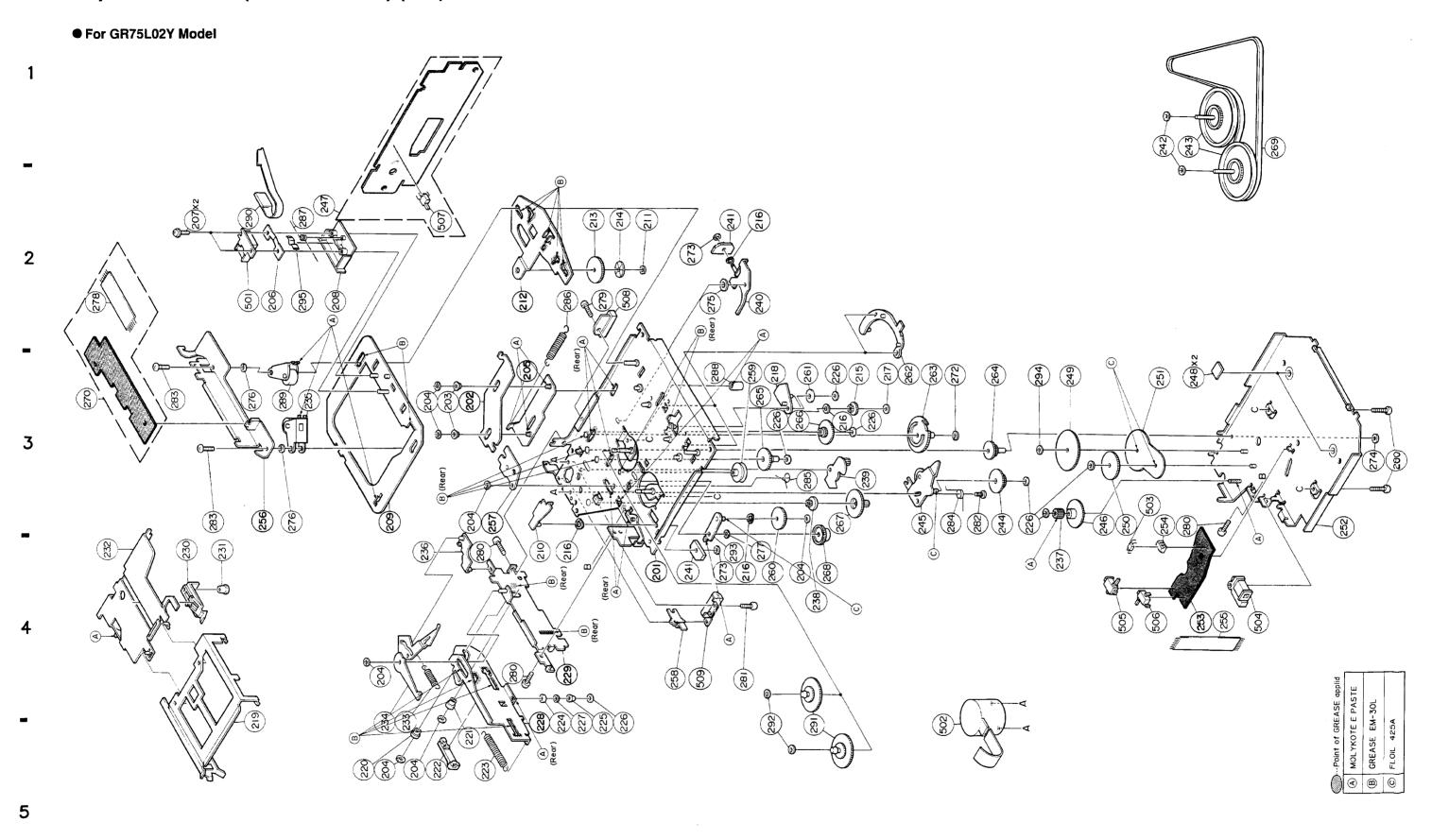
S	L	ISL	(2	•	
ſ				e:The parts w	Ithout parts list are not supplied.
	-	∎bo1	IN-	Part No.	Description
}		No. 248	dex 3-G	43A90918F01	Spacer, Polyslider
			3-F	44A11063W01	Gear. Bottom(A)
		250		44A11064W01	Gear. Bottom (B)
		251			Washer, GR
l		252			Assy., Riv. Cover Bottom
	į	254	3-C	15B11065W01	Guide, Photo
		255	4-G	30T15126W01	Wire, PC Sensor(7P)
		258	4-D	45A10101W01	Lever, Eject Sol.
		259			Pulley, Idler
		260	4-E	44A10133W01	Gear. Take Up
		001	0.5	44410124901	C C
		261 262	į.	44A10134W01 44B10135W01	Gear. Sun Gear. Fix
			. –	44B21670W01	Gear, Pause
			i		Gear, Pause Idler(A)
			j	44A10379W01	Gear, Pause Idler(B)
			• •		
		266	3-E	44A10138W01	Gear, Reverse idler
		267	3-E	44A10139W01	Gear, Motor Idler
		268	4-E	44A11062W01	Gear, Reel idler
		269	1-G	42A10380W01	Belt, GR
	*	270	3-A	01V11500W19	Assy., GR Audio
					P.C. Board
		270	3-A	01V14700W68	Assy., GR Audio
	•	210	3-A	01414100#08	P.C. Board
		271		41A10097W02	Spring, Clutch
			3-F	04B41345P15	Washer, Lock (M1.2)
			1	04B41345P02	Washer, Lock (M1.7)
		274	3-H	04B41345P17	Washer, Lock(M1)
		275	2-D	04B41345P30	Washer, Lock(M3.1)
		276		04B41345P32	Washer, Lock(M3.1)
		277	4-E	04B41345P06	Washer, Lock (M2.1)
		278	2-A	30T15126W02	Wire, PC Joint 7P
		279	2-D	03S44205G78	Screw, Pan(M2x6)
		280		03S44205G30	Screw. Pan(M2.6x4)
		281	4-D	03S72235F38	Screw. Pan(M2x3.3)
		282	3-F	03A12132W02	Screw. Eject Clutch
					(M2x2.3)
		283		03S43997P64	Screw. Pan(M1.7x3)
		284	3-F	41A10384W01	Spring. Eject Clutch
		285	3-E	41A10385W01	Spring, Cas. Push
		286	2-C	41B10386W02	Spring, Sub Head Spring, Pinch Roller
		287 288	2-B 3-D	41A10387W01 43A12719W01	Roller, Pause
		289	3-B	01B10381W01	Assy., Pinch Roller
		200		JIDIVOOIRUI	
		290	2-B	84T10367W01	Head P.C. Board
	l		!		1

Sy	nbol	1N-	Part No.	Description
	No.	dex		
	291	4-E	01T15164W03	Assy. Reel
	l	4-E	04B41345P12	Washer, Lock (M1.7)
	293	4-D	01A11078W01	Assy., Riv Lever
	004		04041045004	Take Up
	294	3-F	04B41345P34	Washer, Lock (M1.2)
	295	2-B	26A20537W01	Shield, Plate
	1			
			Misc	ellaneous
*	501	2-B	88T10373W01	Head
•	501	2-B	88T15971W01	Head
	502	4-E	01V23900W60	Assy., Motor
	503		51T15144W01	Sensor, Photo
	504	4-G	01T10371W01	R/F Sol. Assy
	505		40T1 F0 00 00 1	CM December (Beats Davis)
	505 506		40T15382W01 40T15382W01	SW., Detector (Pack Down) SW., Detector (Metal)
	507	4-G 2-C	40T15382W01	SW., Detector (Pack In)
	508	1 -	01T15249W01	Assy., Play Solenoid
	509	4-D	01T10369W02	Assy. Eject Solenoid
	303	4 D	01110303#02	ASSY.: Eject Sorenord
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Notes : ★ ; For GR75L010 model only ◆ ; For GR75L020 model only

Others; Common

# Exploded View (GR-Y Series) (3/3)



- 25 -- A I B I C I D I E I F I

# Cassette Deck Assembly Parts List (GR-Y Series) (3/3)

	T	1	T
Symbol	1N-	Part No.	Description
No.	dex		
203	3-C	43A11072W01	Roll. Sub Head
204		04B41345P01	Washer, Lock (M1.2)
206	2-B	41A21671W01	Spring, Head
207	1	03S40019G03	Screw. F-Locks (M2x4)
208	2-B	43B12545W01	Tape. Guide
210	4-C	01A10206W01	Assy., Riv Lever R/F
			Sol.
211	2-D	04B41345P38	Washer, Lock(M2.6)
213	2-D	44A10295W01	Gear. Sensor
214	2-D	14A10681W01	Reflector
215	3-E	44A10142W01	Gear. Planet
216		41A10097W02	Spring, Clutch
217	3-E	04B41345P31	Washer, Lock (M1.7)
218	3-E	01A21853W01	Assy., Riv Lever
			Reverse
219	4-B	07B10074W01	Nolder Cassette
220	5-B	43A12583W01	Roller, Eject
221	5-C	43A63281F01	Roller, Plate Base
222	5-C	44A82206F01	Rack
223	5-C	41B10386W03	Spring, GR(Rack)
224	4-C	43A10121W01	Roller, Eject(A)
225	4-D	43A10360W01	Roller, Eject(B)
226		04B41345P11	Washer, Lock (M1.2)
227	4-D	43A12377W01	Roller, Eject(C)
230	4-A	45B10376W01	Slider
231	4-B	47A63278F01	Shaft, Slider
232	4-A	01A10212W01	Assy., Riv Plate Base
_			
233	4-C	41B10386W01	Spring, Eject Arm
234	4-B	01A21754W01	Assy., Riv Eject
			Arm(A)
235	3-B	01B10381W02	Assy., Pinch Roller
. 236	1	45A10087W01	Lever, Pack In SW.
237	4-F	44A20314W01	Pinion, Eject
	1		
238	4-E	44A13617W01	Gear. Motor Idler(B)
239	3-E	01A10201W02	Assy Riv Lever
		A. 1000mc::::	Pause
240	2-D	01A30879W01	Assy., Riv. Play Sol.
241		76T10374W01	Chip
242	1-G	04S40075G05	Washer. Polyslider
			(M2.1)
0			
243	1-G	01A10368W01	Assy. Flywheel
244	3-F	44A10141W01	Gear, Eject Idler
245	3-E	01A10205W02	Assy., Riv Lever
			Clutch(A)
246	3-F	44A10145W01	Gear. Eject
247	2-B	01V23700W04	Assy. GR Control
			P.C. Board
		1	1

		Not	e:The parts v	without parts list are not supplied.
Sy	∎bo1	IN-	Part No.	Description
<u> </u>	No.	dex		2000.17410.1
	248	3-G	43A90918F01	Spacer, Polyslider
	249	3-F	44A11063W01	Gear, Bottom (A)
	250	3-F	44A11064W01	Gear, Bottom(B)
Ì	251	3-G	34A11122W02	Washer. GR
	252	3-H	01A10210W02	Assy., Riv. Cover Bottom
	254	3-G	15B11065W01	Guide, Photo
	255	4-G	30T15126W01	Wire, PC Sensor(7P)
	258	4-D	45A10101W01	Lever, Eject Sol.
	259	3-D	49A10131W01	Pulley, Idler
	260	4-E	44A10133W01	Gear. Take Up
ļ ,				
	261	3-E	44A10134W01	Gear, Sun
	262	3-E	44B10135W01	Gear, Fix
	263	3-E	44B21670W01	Gear. Pause
	264		44A10137W01	Gear. Pause Idler(A)
	265	i	44A10379W01	Gear, Pause Idler(B)
	266	3-E	44A10138W01	Gear, Reverse Idler
	267	3-E	44A10139W01	Gear, Motor Idler
	268	4-E	44A11062W01	Gear, Reel Idler
	269	ł	42A10380W01	Belt. GR
	270	3-A	01V33300V03	Assy., GR Audio
	210	" "	01100000#00	P.C. Board
				1.c. board
	272	3-F	04B41345P15	Washer, Lock(M1.2)
	273	0 1	04B41345P02	Washer, Lock (M1.7)
	274	3-H	04B41345P17	Washer, Lock(M1)
	275	l	04B41345P30	Washer, Lock (M3.1)
	276	3-B	04B41345P32	Washer, Lock (M3.1)
	210	3-6	04041040702	Washer, Lock (MS.1)
	277	4-E	04B41345P37	Washer, Lock(M2.1)
	278		30T15126W02	Wire, PC Joint 7P
	279		03S44205G78	Screw. Pan(M2x6)
	280	2 0	03S44205G30	Screw. Pan(M2.6x4)
	281	4-D	03S72235F38	Screw. Pan(M2x3.3)
	201	4-D	03512233538	Screw. Pan(M2X3.3)
	282	3-F	03A12132W02	Screw, Eject Clutch
	202	<b>о</b> -г	03/17/19/40/	(M2x2.3)
	283		03S43997P64	Screw. Pan(M1.7x3)
	284	3-F	41A10384W01	Spring, Eject Clutch
	285	3-F 3-E	41A10385W01	Spring, Cas. Push
	286	3-E 2-C	41B10386W02	Spring, Cas. Push Spring, Sub Head
	200	2-0	#IDT0900#07	Oping, due neau
	287	2-B	41A10387W01	Spring, Pinch Roller
	288	3-D	43A12719W01	Roller. Pause
	289	3-B	01B10381W01	Assy. Pinch Roller
	290	3-В 2-В	84T35271W01	Head P.C. Board
	230	L-D	041332/1901	neau r.c. Dogiu

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Symbol	1	Part No.	Description
No.	dex		
291	- 1	01T15164W03	Assy Reel
292		04B41345P12	Washer, Lock(M1.7)
293	3 4-D	01A30161W01	Assy Riv Lever
			Take Up
294	1 3-F	04B41345P34	Washer, Lock(M1.2)
295	5 2-B	26A20537W01	Shield, Plate
	<del></del>	Missi	11
		MISCE	ellaneous
501	2-B	88T15971W01	Head
502	2 4-E	01V23900W60	Assy., Motor
503	3-G	51T15144W01	Sensor. Photo
504	4-G	01T10371W01	R/F Sol. Assy
505	4-F	40T15382W01	SW., Detector (Pack Down)
506	Ì	40T15382W01	SW., Detector (Metal)
507	1	40T15222W01	SW. Detector (Pack In)
508		01T15249W01	Assy., Play Solenoid
508			
309	4-D	01T10369W02	Assy., Eject Solenoid
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